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National Highway Traffic Safety Administration

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*** *** ***



DYNAMIC SCIENCE, INC.

In-Depth Accident Investigation

Contract DTNH22-94-D-27058 Case DSI-96-AB-12

May, 1997

	,	Technical Report Documentation Page
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DSI-96-AB-12		
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In-Depth Accident Inve	estigation	April/1997
		Performing Organization Report No.
7. Author(s) Dynamic Science	ce, Inc.	Performing Organization Report No.
9. Performing Organization name and Add	ress	10. Work Unit No. (TRAIS)
Dynamic Science, Inc.		
530 College Parkway,		11. Contract or Grant no.
Annapolis, MD 21401		DTNH22-94-D-27058
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four-door driven by a 39-ye intersection. The driver of the lap portion of the lap and Vehicle 2, a 1987 Ford Terr at the intersection, preparing hand turn. The driver of Vepre-impact skidding, but it s visible. The front of Vehicairbags in Vehicle 1 deployed to rest south of the intersectivities to the collision pulled occupant who was unconscious witness vehicle and transport trapped inside his vehicle. A The right rear passenger com	ar-old female, was traveling southbound on a two-lar Vehicle 1 was restrained. The right front occupant of shoulder belt system. The right rear occupant was into poor four-door driven by a 47-year-old male, was into go to turn to the west. As Vehicle 1 approached the ehicle 1 stated that she did not have time for any every should be noted that Vehicle 1 is an ABS-equipped where the fourth of the right side of Vehicle 2. Vehicle 1 seed at this point. Vehicle 1 was redirected slightly to each of the car off to the side of the road. The driver of the cous at this time. She requested assistance. The right ted to a local emergency room. This took approximation of right leg injuries. The right front passent applained of right leg injuries. The right front passent	was a four-year-old female. She was wearing only is a seven-year-old female who was restrained. Itially stopped facing north in the left hand turn lane intersection, the driver of Vehicle 2 began a left asive maneuvers and the police did not report any vehicle and it is unlikely that any skidmarks would be justained a delta V of 22 km/h (14 MPH). Both the right, went into a clockwise rotation and came in, coming to rest in the intersection facing south. A Vehicle 1 exited her vehicle, carrying the right front at front occupant was placed in the rear of the lately five minutes. The driver of Vehicle 2 was the driver of Vehicle 1 complained of chest injuries.

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Air bag, deployment, crash, child				
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right front occupant was set in motion, and rotated about the lap belt. Her left arm was struck by the module cover and her face and chest struck by the deploying airbag. Vehicle 1 sustained moderate damage (12FDEW2) and was towed from the scene and placed

into secure police storage. Vehicle 2 was towed from the scene due to damage.

TECHNICAL SUMMARY

CONTRACTOR: CONTRACT NUMBER: Dynamic Science, Inc. DTNH22-94-D-27058

CASE NUMBER:

Case DS96-012

This case was initiated in response to reports of an airbag-related child fatality.

This collision occurred in December, 1996 at 1717 hours. The weather was clear and the roadway dry.

Vehicle 1, a 1996 Oldsmobile Cutlass Supreme SL four-door driven by a 39-year-old female, was traveling southbound on a two-lane divided roadway approaching a three-leg intersection. The driver of Vehicle 1 was restrained. The right front occupant was a four-year-old female. She was wearing only the lap portion of the lap and shoulder belt system. The right rear occupant was a seven-year-old female who was restrained. Vehicle 2, a 1987 Ford Tempo four-door driven by a 47-year-old male, was initially stopped facing north in the left hand turn lane at the intersection, preparing to turn to the west.

As Vehicle 1 approached the intersection, the driver of Vehicle 2 began a left hand turn. The driver of Vehicle 1 stated that she did not have time for any evasive maneuvers and the police did not report any pre-impact skidding, but it should be noted that Vehicle 1 is an ABS-equipped vehicle and it is unlikely that any skidmarks would be visible. The front of Vehicle 1 struck the right side of Vehicle 2. Vehicle 1 sustained a delta V of 22 km/h (14 MPH). Both airbags in Vehicle 1 deployed at this point. Vehicle 1 was redirected slightly to the right, went into a clockwise rotation and came to rest south



Figure 1. Exterior of Vehicle 1.

of the intersection. Vehicle 2 was pushed into a clockwise rotation, coming to rest in the intersection facing south.

A witness to the collision pulled his car off to the side of the road. The driver of Vehicle 1 exited her vehicle, carrying the right front occupant who was unconscious at this time. She requested assistance. The right front occupant was placed in the rear of the witness' vehicle and transported to a local emergency room. This took approximately five minutes. The driver of Vehicle 2 was trapped inside his vehicle. After extrication he was transported to the hospital.

The driver of Vehicle 1 complained of chest injuries. The right rear passenger complained of right leg injuries. The right front passenger sustained head and chest injuries and was pronounced dead at 1950 hours, a little more than 2-1/2 hours after the collision.

It appears that the driver of Vehicle 1 braked prior to impact. The right front occupant was set in motion, and rotated about the lap belt. Her left arm was struck by the module cover and her face and chest struck by the deploying airbag.

Vehicle 1 sustained moderate damage (12FDEW2) and was towed from the scene and placed into secure police storage. Vehicle 2 was towed from the scene due to damage.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the precrash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DSI-96-AB-12

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ACCIDENT DATA:	
Location:	
Area/Type:	Urban
Date/Time:	1996 / 1717
Accident Type:	Vehicle v. Vehicle / Front to Side
Injury Severity:	
Vehicle 1:	Driver, no codeable injuries RF occupant, AIS=3, fatally injured RR occupant, no codeable injuries
Vehicle 2:	Injured, unknown severity
AMBIENCE:	
Viewing Conditions:	Good
Cloud Cover:	None
Precipitation:	None
Temperature:	14 to -1° C (57 to 31° F)
Road Surface:	Dry

ROADWAY:

VEHICLE 1 VEHICLE 2

Type: Business Business

Width: 19.7 M (64.7 ft.) 19.7 M (64.7 ft.)

Traffic Density: Light to moderate Light to moderate

Median: Curbed None

Edge: Curbed median on left, Paved driveway / parking paved bituminous lot area on right, paved

shoulder on right asphalt shoulder on right

0.70

Surface: Asphalt Asphalt

0.70

Reported Defects: None None

Vertical Alignment: Level Level

Horizontal Alignment: Straight @ intersection, Straight slight left-hand curve

Co-efficient of Friction (est.):

Traffic Controls:

VEHICLE 1 VEHICLE 2
Signals: None None

Signs: None applicable None applicable

Speed Limit: 72 km/h (45 MPH) 72 km/h (45 MPH)

Markings: Dashed white lines to Triple yellow lines to left, the right, solid yellow double white lines to right

the right, solid yellow double white lines to right

to the median

VEHICLES:

VEHICLE 1

VEHICLE 2

Description:

1996 Oldsmobile

Cutlass Supreme SL

four-door

1987 Ford Tempo four-

door

Odometer:

51175 km

(31800 miles)

Unknown

Engine:

3.1 L V6 MFI

2.3 L L4

Vehicle Modifications:

None

None noted

Tire Condition:

Good

Unknown

Manual Restraints:

3-point loop lap and shoulder belt with

Unknown

shoulder belt with shoulder retractor and end release adjustment for LF/RF; 3-point loop lap and shoulder belt with shoulder retractor, end release adjustment, and child cinch retractor for LR/RR; lap belt for

MR.

Automatic Restraints:

Supplemental Restraint

System (driver's and passenger's side airbags)

None

Reported Defects:

None

None

Cargo:

None

Unknown

Windshield Damage:

Damaged by occupant

Unknown

contact and the airbag module cover

Fleet:

None

None

Tow Status:

Towed, due to damage

Towed, due to damage

VEHICLE DAMAGE:

	VEHICLE 1	VEHICLE 2
Object Struck:	02	01
Event Number:	01	01
CDC:	12FDEW2	Unknown
Maximum Crush:	29.5 cm @C4-C5	Unknown

Bumper knocked off during collision. The bumper system has a soft fascia and uses a honeycomb absorber with a rigid reinforcing bar.

VEHICLE VELOCITY ESTIMATES:

	VEHICLE 1	VEHICLE 2
Impact Speed: (estimated)	63 km/h (39.4 MPH)	43 km/h (26.9 MPH)
Total Delta V:	22 km/h (14 MPH)	32 km/h (20 MPH)
Longitudinal Delta V:	-22 km/h (-14 MPH)	-18 km/h (-11 MPH)
Lateral Delta V:	2 km/h (1 MPH)	-26 km/h (-16 MPH)
Energy Dissipation:	36648 joules (27174 ft-lb)	50343 joules (37126 ft-lb)

Delta V calculations based upon missing vehicle algorithm using default stiffness values.

Impact speed estimated using 360 linear momentum method (see below).

```
Vehicle 1 Weight = 3659 pounds
Vehicle 1 Approach Angle = 0 degrees
Vehicle 1 Departure Angle (theta) = 11 degrees
Vehicle 1 Departure Speed = 32 MPH
Vehicle 2 Weight = 2544 pounds
Vehicle 2 Approach Angle (psi) = 100 degrees
Vehicle 2 Departure Angle (phi) = 69 degrees
Vehicle 2 Departure Speed = 19 MPH
```

```
V2 = (W1 * V3 * Sin(theta)) / (W2 * Sin(psi) + (V4 * Sin(phi)) / Sin(psi) \\ V2 = 3659 * 32 * Sin(11) / 2544 * Sin(100) + 19 * Sin(69) / Sin(100) \\ V2 = 3659 * 32 * .19080 / 2544 * .98480 + 19 * .93358 / .98480
```

```
V2 = 22341. / 2505.3 + 17.738 / .98480
```

$$V2 = 8.9174 + 18.011$$

$$V2 = 26.929 \text{ MPH}$$

$$V1 = S3 * Cos(theta) + (W2 * V4 * Cos(phi)) / W1 - (W2 * V2 * Cos(psi)) / W1$$

$$V1 = [32 * Cos(11)] + [2544 * 19 * Cos(69) / 3659] - [2544 * 26.929 * Cos(100) / 3659)]$$

$$V1 = [32 * .98162] + [2544 * 19 * .35836 / 3659] - [2544 * 26.929* - .1736 / 3659]$$

$$V1 = 31.412 + 4.7341 - -4.676$$

V1 = 39.397 MPH

COLLISION SEQUENCE:

Pre-Crash:

Vehicle 1, a 1996 Oldsmobile Cutlass Supreme SL four-door driven by a 39-year-old female, was traveling southbound on a two-lane divided roadway approaching a three-leg intersection. The driver of Vehicle 1 was restrained. The right front occupant was a four-year-old female. She was restrained using only the lap belt. The right rear occupant was a seven-year-old female who was restrained. Vehicle 2, a 1987 Ford Tempo four-door driven by a 47-year-old male, was initially stopped facing north in the left hand turn lane at the intersection, preparing to turn to the west

Crash:

As Vehicle 1 approached the intersection, the driver of Vehicle 2 began a left hand turn. The driver of Vehicle 1 stated that she did not have time for any evasive maneuvers and the police did not report any preimpact skidding, but it should be noted that Vehicle 1 is an ABS-equipped vehicle and it is unlikely that any skidmarks would be visible. Given the occupant kinematics, it is believed that there was some preimpact braking. The front of Vehicle 1 struck the right side Vehicle 2. Vehicle 1 sustained a delta V of 22 km/h (14 MPH). Both airbags in Vehicle 1 deployed at this point.

Post Crash:

Vehicle 1 was redirected slightly to the right, went into a clockwise rotation, and came to rest facing generally toward the north approximately 32 M (105 ft) south of the impact area. Vehicle 2 was pushed into a clockwise rotation, coming to rest in the intersection facing toward the south. A witness to the collision pulled his car off to the side of the road. The driver of Vehicle 1 exited her vehicle, carrying the right front occupant who was unconscious at this time. She requested assistance. The right front occupant was placed in the rear of the witness vehicle and transported to a local emergency room. This took approximately five minutes. The driver of Vehicle 2 was trapped inside his vehicle. After extrication he was transported to the hospital.

The driver of Vehicle 1 complained of chest injuries. The right rear passenger complained of right leg injuries. The right front passenger sustained head and chest injuries and was pronounced dead at 1950 hours, a little more than 2-1/2 hours after the collision.

Occupant Kinematics:

The right front occupant of Vehicle 1 was wearing only the lap portion of the lap and shoulder belt system. There is scoring on the D-ring indicating loading and there is injury evidence which indicates no shoulder belt usage.

It appears that the right front occupant was turned somewhat to the right. The lap belt was fastened. Prior to impact, the driver of Vehicle 1 braked. The right front occupant pivoted about the lap belt. Her head, torso, and hands went forward. Prior to impact, this occupant's left arm was above and somewhat to the left of the center of the module cover. Her waist would have been loading and in contact with the lap belt. At impact, the airbag deployed. The module cover was forced upward toward the windshield. This motion caused the module to strike and contuse the underside of this occupant's left arm. It also seems to have diverted the normal module cover motion to the right (see Figure 4). Her arm and hand were forced upward and the top side of her left hand struck and fractured the windshield. The deploying airbag struck her primarily on the left side of her face causing numerous abrasions, a fractured mandible, and brain contusion. The airbag also contacted the left posterior portion of her torso causing fractured ribs. It appears that the splenar lacerations and a liver laceration were caused due to loading from the lap belt. The right arm was flung backward and struck some unknown objects.

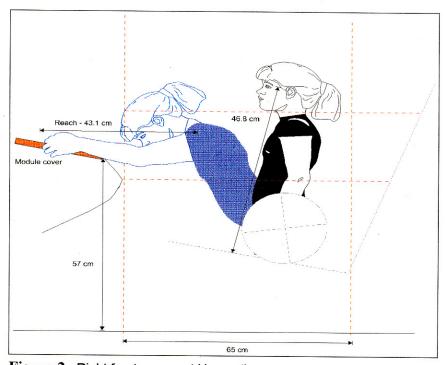
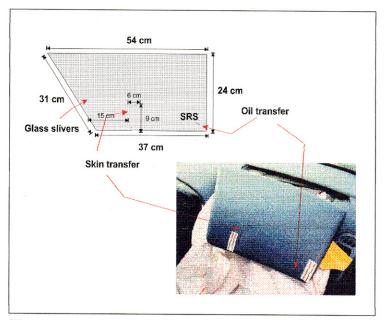


Figure 2. Right front occupant kinematics



 $Figure\ 3.\ \ \text{Module cover, right front airbag}.$



Figure 4. Motion of module cover due to left side loading.

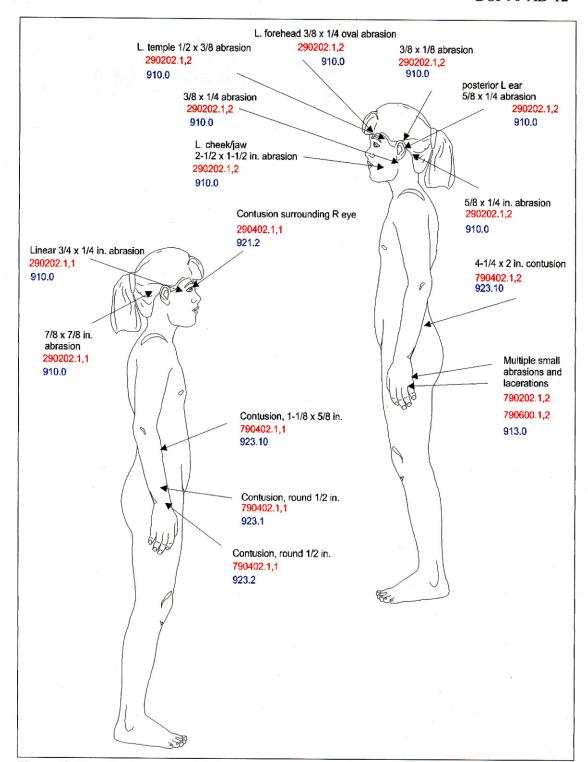


Figure 5. Right front occupant injuries

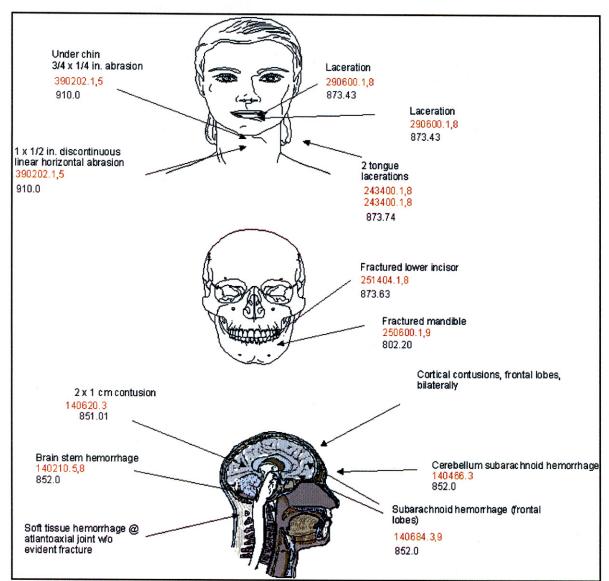


Figure 6. Right front occupant injuries

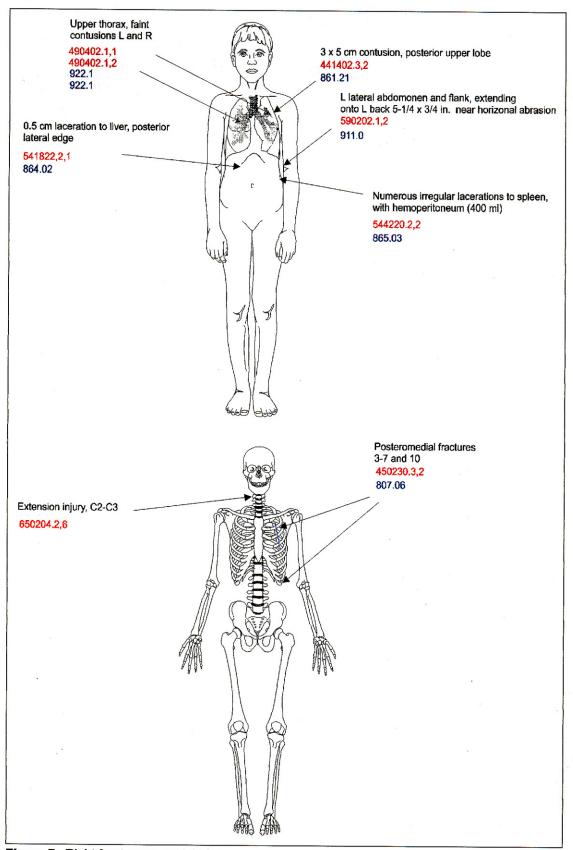


Figure 7. Right front occupant injuries

Airbag System:

Vehicle 1 was equipped with a driver's and passenger's side supplement restraint system. The left front airbag module uses an "I" tear pattern. The airbag is 63 cm in diameter and there are nine folds. The right front airbag is top-mounted and the module uses a webbing attached design. Figures 8

and 9 show the design of the right front air bag module cover. The airbag is 56 cm by 57 cm tall. The maximum excursion puts the leading edge of the airbag just beyond the middle of the seat at its farthest back position (see Figure 10).

Scene Clearance:

Both vehicles were towed from the scene due to damage.



Figure 8. Module cover.

Safety Standards:

There were no violations of Federal Motor Vehicle Safety Standards and Regulations found during the inspection of the case vehicle.



Figure 9. Module cover contact to windshield.



Figure 10. Maximum excursion, right front airbag.

DRIVER AND OTHER OCCUPANTS:

VEHICLE 1

DRIVER OCCUPANT 2

Age/Sex: 39/Female 4/Female

Seated Position: Left front Right front

Seat Type: Bucket Bucket

Height: Unknown 112 cm (44 in.)

Weight: Unknown 17 kg (38 lbs.)

Occupation: Unknown None

Pre-existing Medical Unknown None noted Condition:

Alcohol/Drug Involvement: None None

Driving Experience: ≈20 years NA

Body Posture: Normal, upright Facing right

Hand Position: Unknown, presumed both Unknown

on steering wheel

Foot Position: Right foot on brake, left on Unknown

floor

Restraint Usage: Lap and shoulder belts used Lap portion used

Additional Occupants: Yes

DRIVER AND OTHER OCCUPANTS:

VEHICLE 1

Occupant #3

Age/Sex:

7/Female

Seated Position:

Right rear

Seat Type:

Bench

Height:

Unknown

Weight:

Unknown

Occupation:

None

Pre-existing Medical

Unknown

Condition:

Alcohol/Drug Involvement:

None

Driving Experience:

NA

Body Posture:

Unknown

Hand Position:

Unknown

Foot Position:

Unknown

Restraint Usage:

Lap and shoulder used

Additional Occupants:

None

DRIVER AND OTHER OCCUPANTS (con't):

VEHICLE 2

DRIVER

Age/Sex:

47/Male

Seated Position:

Left front

Seat Type:

Bucket

Height:

Unknown

Weight:

Unknown

Occupation:

Unknown

Pre-existing Medical

Unknown

Condition:

Alcohol Involvement:

None

Driving Experience:

≈30 years

Body Posture:

Unknown

Hand Position:

Unknown

Foot Position:

Right presumed to be on

accelerator, left on floorboard

Restraint Usage:

Seatbelts not used, per police

Additional Occupants:

None

INJURIES:

Vehicle 1

	INJURY	OIC CODE	ICD-9	SOURCE
DRIVER:	Complained of pain to chest			
R/F OCCUPANT:	Brain stem hemorrhage	140210.5,8	852.0	Airbag
	3 x 5 cm contusion, posterior upper lobe of left lung	441402.3,2	861.21	Airbag
	Cerebellum subarachnoid hemorrhage	140466.3,6	852.0	Airbag
	Posteromedial fractures to ribs 3-7, and 10 with hemothorax	450232.4,2	807.06	Airbag
	Subarachnoid hemorrhage (frontal lobes)	140684.3,9	852.0	Airbag
	Cortical contusions, frontal lobes, bilaterally plus 1 2 x 1 cm contusion to the right posterior parietal region	140622.3,3	851.01	Airbag
	Parenchall disruption. Numerous irregular lacerations to spleen with hemoperitoneum (400 ml)	544226.4,2	865.03	Lap belt
	0.5 cm laceration to liver, posterior to lateral edge	541822.2,1	864.02	Lap belt
	Upper thorax, faint contusions left and right	490402.1,1 490402.1,2	922.1 922.1	Unknown
	Extension injury, C2-C3	650204.2,6		Airbag
	3/4 x 1/4 in. abrasion under chin	390202.1,5	910.0	Airbag
	1 x ½ in. discontinuous linear horizontal abrasion on neck	390303.1,5	910.0	Airbag
	Lip lacerations (2)	290600.1,8 290600.1,8	873.43 873.43	Airbag
	Tongue lacerations (2)	243400.1,8 243400.1,8	873.74 873.74	Airbag
	Fractured lower incisor	251404.1,8	873.63	Airbag
	Fractured mandible	250600.1,9	802.20	Airbag
	Left temple, ½ x 3/8 in. abrasion	290202.1,2	910.0	Airbag

INJURY	OIC CODE	ICD-9	SOURCE
2-1/2 x 1-1/2 in. abrasion left check and jaw	290202.1,2	910.0	Airbag
3/8 x 1/4 in. oval abrasion left forehead	290202.1,2	910.0	Airbag
3/8 x 1/8 in. abrasion above left ear	290202.1,2	910.0	Airbag
5/8 x 1/4 in. abrasion to left ear	290202.1,2	910.0	Airbag
5/8 x 1/4 in. abrasion posterior to left ear	290202.1,2	910.0	Airbag
Linear 3/4 x 1/4 in. abrasion to right side of face	290202.1,1	910.0	Airbag
7/8 x 7/8 in. abrasion to parietal scalp	290202.1,1	910.0	Unknown
Round ½ in. contusion to right distal forearm	790402.1,1	923.1	Unknown
1-1/8 x 5/8 in. contusion to right proximal forearm	790402.1,1	923.10	Unknown
Round ½ in. contusion to right wrist	790402.1, 1	923.2	Unknown
4-1/3 x 2 in. contusion to left posterior proximal left forearm	790402.1,2	923.10	Airbag module cover
Small abrasions to back side of left hand	790202.2,2	913.0	Windshield
Small lacerations to back side of left hand	790600.1,2	913.0	Windshield

R/F OCCUPANT: Complained of pain to right leg

Vehicle 2

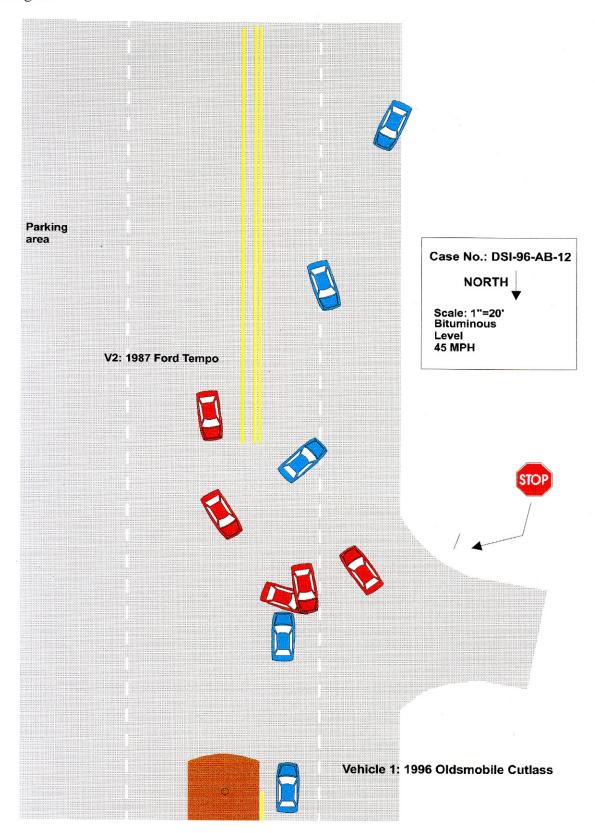
INJURY OIC CODE ICD-9 SOURCE

DRIVER: Injured, unknown severity

Abbreviations Used In Scene And Photographic Documentation

ft Feet Inches in Abbreviated Injury Scale AIS Begin Left Front **BLF** Begin Left Rear BLR **BRF** Begin Right Front BRR Begin Right Rear Cab Behind Engine CBE Counterclockwise **CCW** Collision Deformation Classification CDC Center of Gravity CG CM Centimeter Cab Over Engine COE CW Clockwise E, EB East, Eastbound ELF End Left Front ELR End Left Rear **ERF End Right Front** End Right Rear ERR **Final Rest Position FRP** Ι Interstate Highway **Intermediate Point** IP KG Kilogram Kilometers Per Hour KPH LF Left Front Left Rear LR M Meter North, Northbound N, NB Northeast NE NW Northwest Principal Direction of Force **PDOF** Point of Impact POI RF Right Front RL Reference Line RP Reference Point Right Rear RR South, Southbound S, SB Southeast SE SW Southwest Time or Elapsed Time (in seconds) T Vehicle Number 1 V1 W, WB West, Westbound

Diagram



COLLISION MEASUREMENTS

Case Number DSI-96-AB-12

Reference Point:

Utility pole on median

Reference Line:

Left lane marking of NB left turning lane

DATA POINT	LONGITUDINALS	LATERALS
Southbound lanes		
Median	0	5.4 M (16.3 ft.) ERL
Lane 2	0	4 M (12.1 ft.) WRL
Lane 1	0	7.4 M (24.4 ft.) WRL
Shoulder	0	9.8 M (32.1 ft.) WRL
Northbound lanes		
Turn lane	0	4.9 M (16.3 ft.) ERL
Lane 2	0	8.9 M (29.2 ft.) ERL
Lane 1	0	12.3 M (40.3 ft.) ERL
POI	13.6 M (44.5 ft.) SRP	
Vehicle 2 FRP		
LR	14.1 M (46.4 ft.) SRP	6.6 M (21.7 ft.) WRL
LF	16.5 M (54 ft.) SRP	5.6 M (18.25 ft.) WRL
Vehicle 1 FRP		
RF	45.4 M (149.1 ft.) SRP	8.1 M (26.7 ft.) WRL
RR	48.8 M (160.3 ft). SRP	9.1 M (30 ft.) WRL
Asphalt		
Level		

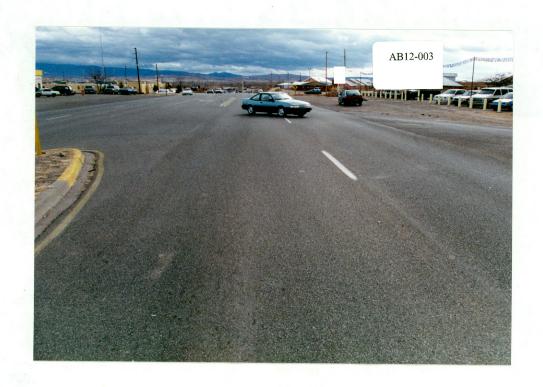
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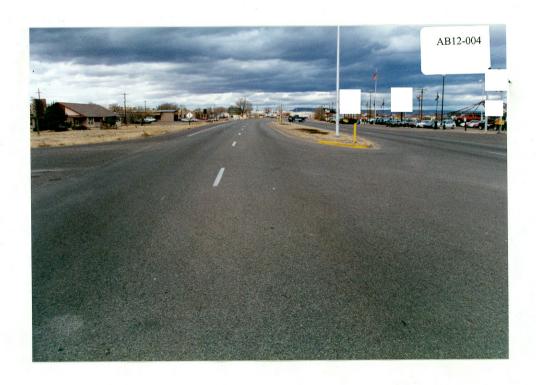
Case Number: DSI-96-AB-12

VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
1	South	Path to area of impact.
1	South	Area of impact.
1	North	Looking back along the path of travel.
1	North	Looking back along the path of vehicle from area of final rest.
2	North	Path to area of impact.
2	North	Area of impact.
2	South	Looking back along the path of travel.
2	CW	Exterior of vehicle.
2	NA	Interior of vehicle. Note: #40-42 shows blood drip pattern #50-52 shows module contact with windshield. #53-56 shows hand contact #58 shows extent of module contact #62 shows material stuck behind mirror #65-72 shows contact to module cover
	NO. 1 1 1 1 2 2 2 2 2	NO. OF PICTURE 1 South 1 South 1 North 1 North 2 North 2 North 2 South 2 CW





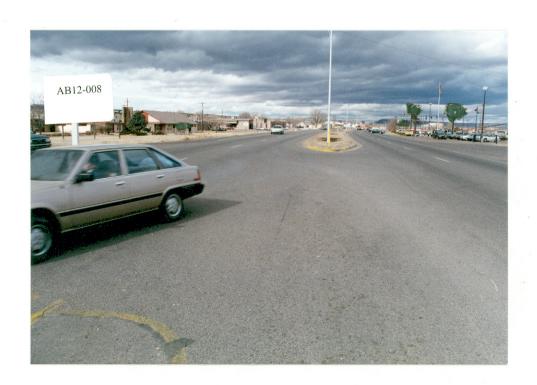


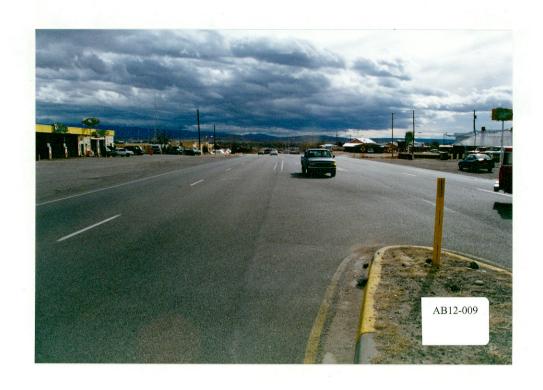














BESTAVAILABLE





























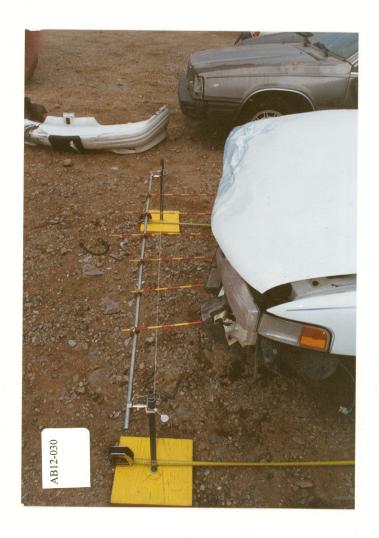




















































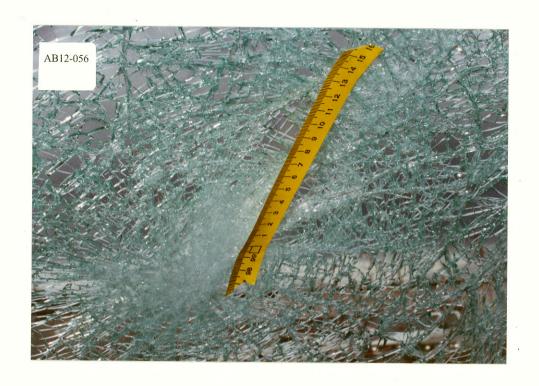


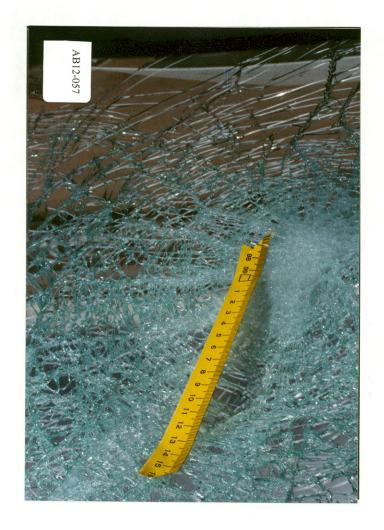


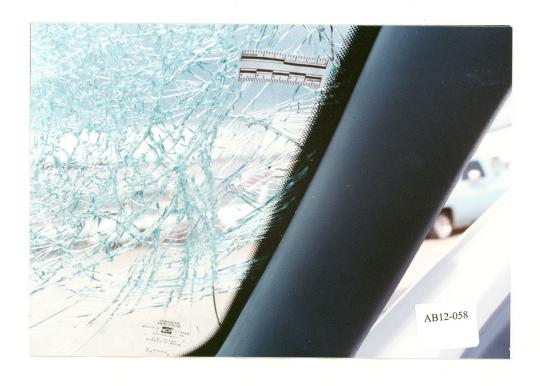






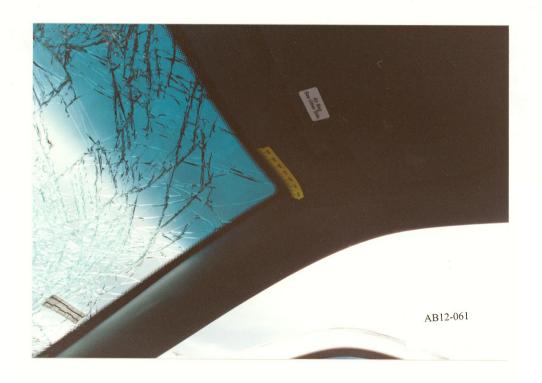












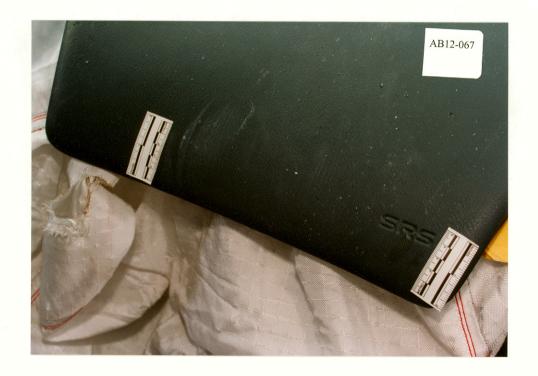




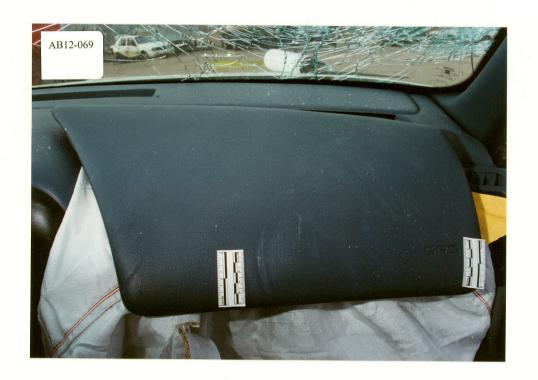


















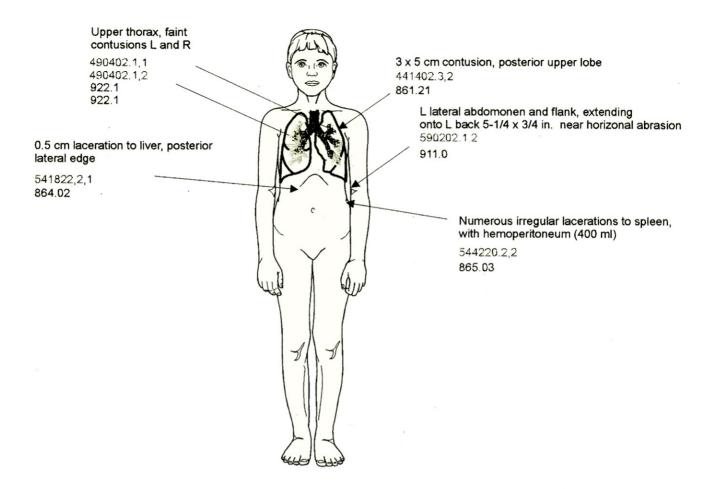


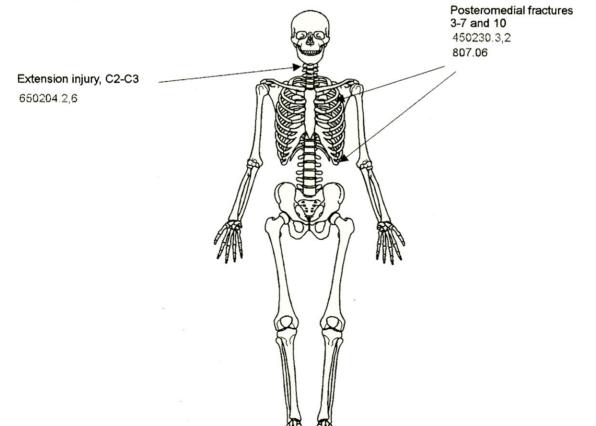


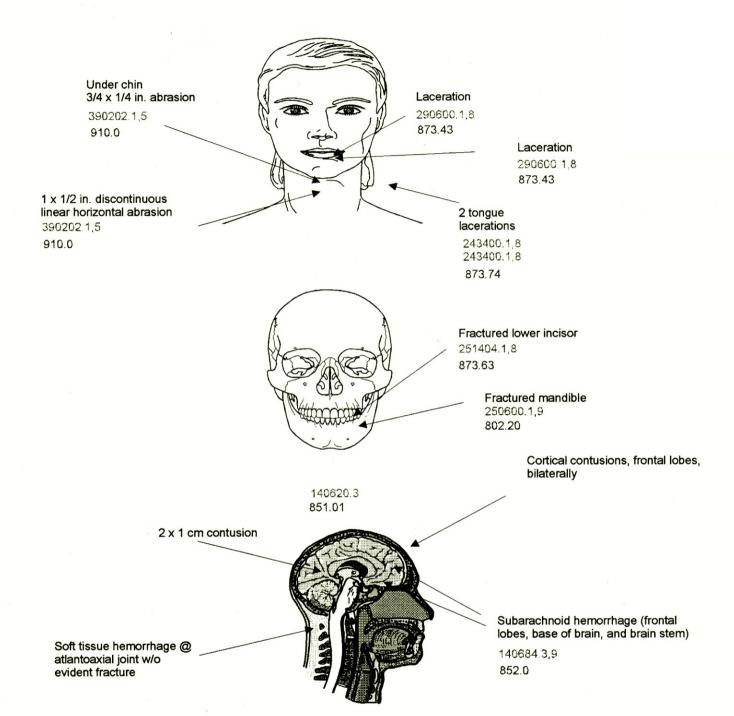




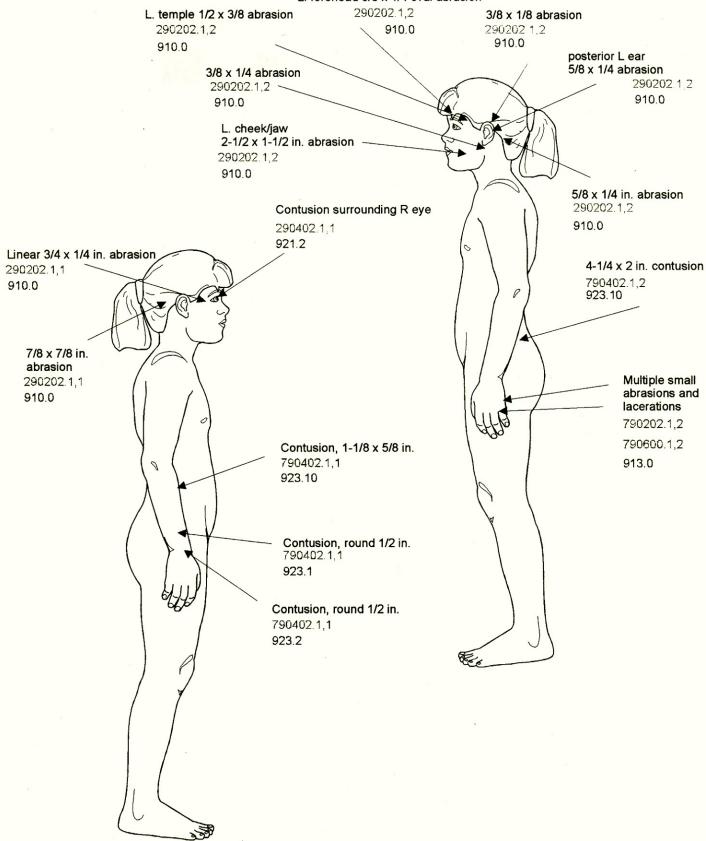


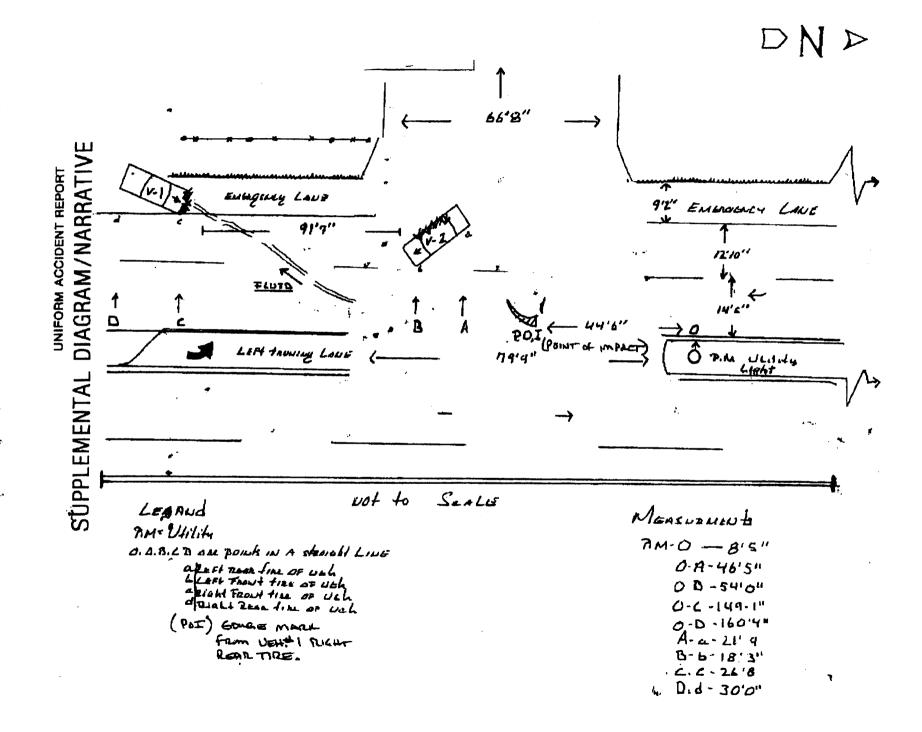






L. forehead 3/8 x 1/4 oval abrasion





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UNIFORM ACCIDENT REPORT

SUPPLEMENTAL DIAGRAM/NARRATIVE

On this Officer was standing in front of the when I heard a loud crash. Myself and other Officers present got into our units and proceeded just north of the Upon arrival, this Officer saw two cars which were involved in a Accident. Driver and passengers of vehicle (1) were taken by

to the by personnel vehicle. Vehicle (2) driver was pinned inside vehicle (2). After extrication of driver (2)

he was taken to the

Accident investigation revealed that vehicle (1) was traveling south
bound on on the passing lane. Vehicle (2) was in the left turning
lane awaiting traffic to clear. Vehicle (2) proceeded to make a left turn.
Vehicle (1) was unable to take evasive action and struck vehicle (2) on the
right side of vehicle. Vehicle (2) at fault.

Driver of vehicle (1) stated that as she was traveling south on she didn't see the car pull out in front of her. Driver of vehicle (2) was unavailable for statement, as he was admitted to the

Witness (1) states vehicle (2) tried to beat traffic by crossing witness (2) states that as vehicle (2) crossed onto he was struck by vehicle (1).

Enforcement action is pending at this time as contact needs to be made through

UNIFORM ACCIDENT REPORT

SUPPLEMENTAL DIAGRAM/NARRATIVE

Vehicle (1) driver complained of chest injuries. Right near passenger complained of right leg injuries and right front passenger was pronounced deceased at 1950 hours. Vehicle (2) driver was admitted to for his injuries.

SUPPLEMENTAL DIAGRAM/NARRATIVE

ASSIGNMENT = Motor Vehicle Accident - Two Vehicles

SCENE =

and

INVESTIGATION = White vehicle #1 - traveling south bound on inside lane.

on

Blue vehicle #2 - attempting to make left turn from north bound

VEHICLE DAMAGE = Damage to White vehicle #1 - Front end windshield - Air bag.

Damage to Blue vehicle #2 to right front door and rear door.

EVIDENCE = Photo's by

Measurements by

Traffic Control by

On scene supervisor

ACCIDENT FORM

Administration		ACCID	EN I FOR	IIVI	CRASHWORTHINE	SS DATA SYSTE
1. Primary Sampl	ling Unit Number		_	SPECIAL STUDI		
2. Case Number		<u>AB 12</u>	— has be	en completed; codes and 0 for the special states.	e 1 for the ched	cked special
Number of Ge Forms Submitted)N 42	6	SS15 Adminis	strative Use	<u>Φ</u>
4. Date of Accide (Month,Day,Ye	- · · · -	/ / 9 6	7		ian Crash Data S cial study available	tudy <u>0</u>
5. Time of Accide	ent	_17 17	_ 8	SS17 Impact	Fires	4
Code repo	rted military time	of accident.	9	SS18 Unsafe	Driver Actions	φ
NOTE: Mi Ur	idnight = 2400 nknown = 9999		10	SS19	·	<u> </u>
				NUMBER (OF EVENTS	
				umber of Recorded This Accident	Events	<u>φ</u> <u>/</u>
			1	ode the number of this accident.	events which occ	curred
		ACCIDE	ENT EVENT	rs		
	nat occurred in the a or object in the rig	accident, code the lo ht columnns.	west number	ed vehicle in the lef	t columns and the	e other
Accident Event Sequence	Vehicle	Class Of	General Area of	Vehicle Number or	Class Of	General Area of
Number	Number	Vehicle	Damage	Object Contacted	Vehicle	Damage
12. <u>0 1</u>	13. <u>φ</u> /	14. <u>ϕ</u> 3	15. 🖊	16. <u>ϕ</u> <u>ν</u>	17. <u>\$\phi\$ /</u>	18. <u> </u>
19. <u>0 2</u>	20	21	22	23	24	25
26. <u>0</u> <u>3</u>	27	28	29	30	31	32
33. <u>0 4</u>	34	35	36	37	38	39
40. <u>0</u> <u>5</u>	41	42	43	44	45	46

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

GENERAL VEHICLE FORM

National Highway Traffic Safety Administration	GENERAL VE	EHICLE FORM NATIONAL ACCIDENT SAMPLING SY CRASHWORTHINESS DATA SY	STE
Primary Sampling Unit Number Case Number - Stratum Vehicle Number	AB 12	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph	
VEHICLE IDENTIFIC 4. Vehicle Model Year Code the last two digits of the mod (99) Unknown 5. Vehicle Make (specify): OLDS MOBILE Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown 6. Vehicle Model (specify): CUTLASS	ATION 96 el year 2 1 φ 2 φ	(999) Unknown 45 mph X 1.6093 = 472 kmph 13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present (9) Unknown 14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown	Φ
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown 7. Body Type Note: Applicable codes may be fouthe back of this page. 8. Vehicle Identification Number	<u>Φ</u> 4	(98) No driver present (99) Unknown Source: 15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present (7) Not reported (8) No driver present (9) Unknown	<u>\$\phi\$</u>
1 2 3 4 5 6 7 8 9 10 11 Left justify; Slash zeros and letter Z No VIN—Code all Unknown—Code all nines 9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police	12 13 14 15 16 17 2 (0 and 2) zeros	16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify): (3) Specimen test given, results unknown or obtained (8) No driver present (9) Unknown if specimen test given	≠ not
(6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown OFFICIAL RECOR		17. Driver's Zip Code (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99998) No driver present (99999) Unknown	
 10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 11. Police Reported Travel Speed Code to the nearest kmph (NOTE: less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown mph X 1.6093 = kmph 	ge 9 9 9	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify): (8) No driver present (9) Unknown	9

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- 28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type (79) Unknown truck type (light/medium/he
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONMENTAL DATA	25	Doodhugu Surface Condition	/
		l .	Roadway Surface Condition (1) Dry	
19.	Relation To Interchange Or Junction Z		(1) Diy (2) Wet	
	(0) Non-interchange area and non-junction		(3) Snow or slush	
	(1) Interchange area related		(4) Ice	
	Non-Interchange junctions		(5) Sand, dirt, or oil	
	(2) Intersection related		(8) Other (specify):	
ĺ	(3) Driveway, alley access related		(9) Unknown	
	(4) Other junction (specify)		•	_
		26.	Light Conditions	5
	(5) Unknown type of junction		(1) Daylight	
			(2) Dark	
	(9) Unknown		(3) Dark, but lighted	
			(4) Dawn	
20	Trafficway Flow /		(5) Dusk	
20.	(0) Not physically divided (two way traffic)	'	(9) Unknown	
	(1) Divided trafficway-median strip without positive			
	barrier	27	Atmospheric Conditions	Ø
	(2) Divided trafficway-median strip with positive barrier		(0) No adverse atmospheric-related driving	
	(3) One way traffic	· ·	conditions	
	(9) Unknown		(1) Rain	
		((2) Sleet/hail	
21.	Number Of Travel Lanes		(3) Snow	
	(1) One		(4) Fog	
	(2) Two		(5) Rain and fog	
	(3) Three		(6) Sleet and fog	al
	(4) Four	,	(7) Other (e.g., smog, smoke, blowing sand or etc.) (specify):	aust,
	(5) Five		(9) Unknown	
	(6) Six	· '	(3) Chichowh	
	(7) Seven or more (9) Unknown	28.	Traffic Control Device	Ø
	(3) CHAHOWH		(0) No traffic control(s)	
	Roadway Alignment 3	((1) Traffic control signal (not RR crossing)	
	Toduway Alighment			
	(1) Straight		Regulatory	
	(2) Curve right (3) Curve left		(2) Stop sign	
	(9) Unknown		(3) Yield sign (4) School zone sign	
	(c) Cindictini		(4) School zone sign (5) Other regulatory sign (specify):	
		'	(c) Other regulatory sign (specify).	
	Roadway Profile		(6) Warning sign (not RR crossing)	
	(1) Level (2) Uphill grade (> 2%)		(7) Unknown sign	
	(3) Hill crest	((8) Miscellaneous/other controls including RR	
	(4) Downhill grade (>2%)		controls (specify):	
	(5) Sag		(a)	
	(9) Unknown	((9) Unknown	
24	Roadway Surface Type	20 .	Traffic Control Device Functioning	Ø
	(1) Concrete		(0) No traffic control device	
	(2) Bituminous (asphalt)		(1) Traffic control device not functioning	
	(3) Brick or block	·	(specify)	
	(4) Slag, gravel, or stone	:		
	(5) Dirt		(2) Traffic control device functioning properly	
	(8) Other (specify):	((9) Unknown	
1	(9) Unknown			

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30	Driver's Distraction/Inattention To Driving ϕ /	(10) Over the lane line on left side of travel lane
	(Prior To Recognition Of Critical Event)	(11) Over the lane line on right side of travel lane
1	(00) No driver present	(12) Off the edge of the road on the left side
İ	(01) Attentive or not distracted	(13) Off the edge of the road on the right side
1	(02) Looked but did not see	(14) End departure (15) Turning left at intersection
Ī	Distractions (03) By other accument(s) (anality)	(16) Turning left at intersection
	(03) By other occupant(s), (specify):	(17) Crossing over (passing through) intersection
	(04) By moving object in vehicle (specify):	(18) This vehicle decelerating (19) Unknown travel direction
1	(05) While talking or listening to cellular phone (specify	
	location and type of phone):	Other Motor Vehicle In Lane
	(00) W/F / F / F	(50) Other vehicle stopped (51) Traveling in same direction with lower steady
	(06) While dialing cellular phone (specify location and	speed
	type of phone):	(52) Traveling in same direction while decelerating
l	(07) While adjusting climate controls	(53) Traveling in same direction with higher speed
1	(08) While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction
l		(55) In crossover
	(09) While using other device/object in vehicle (specify):	(56) Backing
l	(40)	(59) Unknown travel direction of other motor vehicle in lane
	(10) Sleepy or fell asleep	latic
	(11) Distracted by outside person, object, or event (specify):	Other Motor Vehicle Encroaching Into Lane
1	(Specify).	(60) From adjacent lane (same direction)—over left
ľ	(12) Eating or drinking	lane line
	(13) Smoking related	(61) From adjacent lane (same direction)—over right
	(97) Distracted/inattentive, details unknown	lane line
	(98) Other, distraction (specify):	(62) From opposite direction—over left lane line
	(00)	(63) From opposite direction—over right lane line(64) From parking lane
	(99) Unknown Pre-Event Movement (Prior to 14	(65) From crossing street, turning into same direction
31.		(66) From crossing street, across path
	Recognition of Critical Event)	(67) From crossing street, turning into opposite
	(00) No driver present	direction
	(01) Going straight (02) Decelerating in traffic lane	(68) From crossing street, intended path not known
	(03) Accelerating in traffic lane	(70) From driveway, turning into same direction
	(04) Starting in traffic lane	(71) From driveway, across path
	(05) Stopped in traffic lane	(72) From driveway, turning into opposite direction(73) From driveway, intended path not known
	(06) Passing or overtaking another vehicle	(74) From entrance to limited access highway
	(07) Disabled or parked in travel lane	(78) Encroachment by other vehicle—details unknown
	(08) Leaving a parking position	(12) Live of the Land of the L
	(09) Entering a parking position	Pedestrian, Pedalcyclist, or Other Nonmotorist
	(10) Turning right (11) Turning left	(80) Pedestrian in roadway
	(12) Making a U-turn	(81) Pedestrian approaching roadway
	(13) Backing up (other than for parking position)	(82) Pedestrian—unknown location
	(14) Negotiating a curve	(83) Pedalcyclist or other nonmotorist in roadway (specify);
	(15) Changing lanes	(84) Pedalcyclist or other nonmotorist approaching
	(16) Merging	roadway, (specify):
	(17) Successful avoidance maneuver to a previous	(85) Pedalcyclist or other nonmotorist—unknown
	critical event	location (specify):
	(97) Other (specify):	
	(99) Unknown	Object or Animal
	· · ·	(87) Animal in roadway (88) Animal approaching roadway
32.	Critical Precrash Event	(89) Animal approaching roadway
	This Vehicle Loss of Control Due To:	(90) Object in roadway
	(01) Blow out or flat tire	(91) Object approaching roadway
	(02) Stalled engine	(92) Object—unknown location
	(03) Disabling vehicle failure (e.g., wheel fell off)	(98) Other critical precrash event (specify):
	(specify):	
	(04) Non-disabling vehicle problem (e.g., hood flew up) (specify):	(99) Unknown
	(05) Poor road conditions (puddle, pot hole, ice, etc.)	
	(specify):	
	(06) Traveling too fast for conditions	
	(08) Other cause of control loss (specify):	

(09) Unknown cause of control loss

(00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering left (10) Accelerating (11) Accelerating and steering right (98) Other action (specify): (99) Unknown 34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown 36. Accident Type (Note: Applicable codes on back of this page) (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall
Noncollision (31) Turn-over — fall-over	(59) Building (60) Ditch or culvert (61) Ground
(32) No rollover impact initiation (end-over-end)	(62) Fire hydrant
(34) Jackknife	(63) Curb
Callinian Mith Fined Object	(64) Bridge
Collision With Fixed Object (41) Tree (≤ 10 cm in diameter)	(68) Other fixed object (specify):
(42) Tree (> 10 cm in diameter) (43) Shrubbery or bush	(69) Unknown fixed object
(44) Embankment	Collision with Nonfixed Object
	(70) Passenger car, light truck, van, or other vehicle
(45) Breakaway pole or post (any diameter)	not in-transport
Nonbrooks Dele se Dest	(71) Medium/heavy truck or bus not in-transport
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post (≤ 10 cm in diameter) (51) Pole or post (> 10 cm but ≤ 30 cm in diameter)	(77) Train
(52) Pole or post (> 30 cm in diameter)	(78) Trailer, disconnected in transport (79) Object fell from vehicle in-transport
(53) Pole or post (diameter unknown)	(88) Other nonfixed object (specify):
(55) Total Company	(55) Cities Hornixed Object (Specify).
(54) Concrete traffic barrier (55) Impact attenuator	(89) Unknown nonfixed object
(56) Other traffic barrier (includes guardrail) (specify):	(98) Other event (specify):
(opcony).	(99) Unknown event or object

OCCUPANT RELATED	44. Vehicle Cargo Weight φ , φ φ 0
37. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	Code weight to nearest 10 kilograms (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown
38. Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more	Source: SPECTO ROLLOVER DATA
(99) Unknown	45. Rollover Φ Φ
39. Number of Occupant Forms Submitted Φ 3	(00) No rollover (no overturning) Rollover (primarily about the longitudinal axis)
AIR BAG RELATED 40. Is this an AOPS Vehicle? (0) No (includes unknown)	(01-16) Code the number of quarter turns (17) Rollover, 17 or more quarter turns (specify):
(1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts	(98) Rolloverend-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown
Delts	46. Rollover Initiation Type ϕ ϕ (00) No rollover
41. Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed	(01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over
Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag, unknown if deployed	(05) Fall-over (06) Bounce-over (07) Collision with another vehicle
Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if deployed (8) Air bag(s) deployed, details unknown (9) Unknown	(08) Other rollover initiation type specify): (98) Rollover—end-over-end (99) Unknown rollover initiation type 47. Location of Rollover Initiation (0) No rollover (1) On roadway
42. Air Bag(s) Deployment, Other Than First	(2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (8) Rolloverend-over-end (9) Unknown
 (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown 	48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page)
 (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown Specify type of "other" air bag present:	49. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify):
	(5) Other location on vehicle (specify): (6) Non-contact rollover forces (specify):
VEHICLE WEIGHT ITEMS	(8) Rollover-end-over-end (9) Unknown
43. Vehicle Curb Weight Code weight to nearest 10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more (999) Unknown 3,4,6,3 lbs x .4536 = 1,5,4,4 kgs	50. Direction of Initial Roll (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rollover—end-over-end (9) Unknown roll direction

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle)	HIGHEST DELTA V
 52. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride 	58. Basis for Total (Resultant) Delta V (highest) (00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm
Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
 (7) Medium/heavy truck or bus override (of any configuration) (9) Unknown HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V 	All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override
53. Heading Angle For This Vehicle / 8 4	(09) Yielding object
54. Heading Angle For Other Vehicle <u>Z 9 Φ</u>	(10) Overlapping damage (11) All vehicle and collision conditions are within
RECONSTRUCTION DATA 55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	scope of one of the acceptable reconstruction programs, but there is insufficient data available, ———————————————————————————————————
56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	
57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	

TED CRASH SEVERITY
Highest 63. Impact Speed Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
DELTA V CONFIDENCE LEVEL
64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
OTHER SPEED ESTIMATE
Highest 65. Barrier Equivalent Speed

IS MISSING VEHICLE ALGORITHM APPLICABLE FOR THIS VEHICLE? [1/YES [] NO
IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [1/YES [] NO

ESTIMATED DELTA V	VEHICLE INSPECTION					
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection					

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

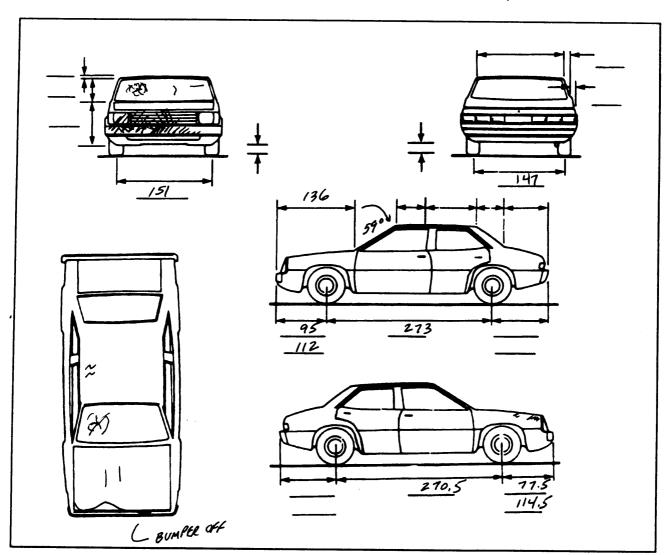
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

National High Administratio	way Traffic Safety n	E)	KTERIOF	R VEH	ICLE	FORM	1	IATIONAL . CRAS	ACCIDENT HWORTHI	SAMPLIN	IG SYSTER	
	ary Sampling Unit Nu		B 1 2	— I	3. Vehic	er		<u> </u>				
			VEHICLE	IDENT	IFICA	TION						
VIN _/	G 3 W H	52	M 4	TF	Χ	<u> </u>	X y	<u> </u>	Model Y	/ear _ <i>9</i>	6	
Vehicle M	ake (specify): <u>QQ</u> S	MOBILE			Vehicle I	Model (s	pecify): _	CUTUSS	SUPRE	ME SL	4 DR.	
				OCAT								
Locate the undamage	e end of the damage ed axle for side impac	with respect	to the vehic	le longit	udinal ce	enter line	or bum	per corne	er for en	d impac	ts or an	
Specific Imp		of Direct Dama	ge		Locatio	on of Field			Location of	ocation of Max Crush		
					······································							
	ORF B	UMPEL COR	INFR				_		C4 - C4	<u> </u>		
										· · · · · · · · · · · · · · · · · · ·		
			SH PROF									
f ii e	Identify the plane at wetc.) and label adjusting the plane and label adjusting the same of the value of the v	ments (e.g., on driver to perfined as the This may in the for each C-	passenger side distance be notude the formeasureme	de in froi etween the illowing: ent and m	nt or real ne baseli bumper naximum	r impactions and the lead, but the crush.	s and rea the origin mper tap power	ar to fron	t in side i	impacts		
	100.0								_	4		
	-GAP FASCIA TO	114'	40	117	16.5	19.5	25	35	40	38	+13	
	HONEY COMB		- 3.5		26	20	1.0		2.7			
	- HONEY COMB				-3.5	-3.5	-3.5	-3.5	-3.5	-3.5 -5		
	- FREE SPACE		-7		-11	-7	-2	-2	-1	-11	 	
•	FINAL		29.5		2	9	19.5	29.5	29.5			
							77.5	0.7.5	71.7	1012		
											<u> </u>	

	VEHICLE DAMAGE SI	KETCH	
TIRE—WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated RF	ORIGINAL SPECIFICANUMA Wheelbase Overall Length Maximum Width Curb Weight Average Track Front Overhang	273 cm 492.3 cm /82.7 cm /544 kg	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF ±
TYPE OF TRANSMISSION ☐ Manual ☐ Automatic END SHIFT ≥ 10 CM ☐ Yes ☐ No	Rear Overhang Undeformed End Width Engine Size: cyl./displ	108:3 cm 14φ cm 12 V6 L	Approximate Cargo Weightkg

MEASUREMENTS IN CENTIMETERS

ANTILOCK BLACES



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

iditional A	ooldent odnipiii	ig Cystein-Olus		Data Oysten		enicle Form	<u> </u>	Page 3
			CDC V	VORKSHE				
			ODES FOR	OBJECT CON	ITACTED			
(01-30)	Vehicle Num	her		(57	') Fence			
(0.00)	Venicle Hain	DCI		(58				*
Noncoll	lision) Building			
		lover (excludes e	nd-over-end)	(60		culvert		
(32)	Rollover-end-	over-end		(61		Juivort		
(33)				(62		ant		
(34)				(63				
(35)	Other intraunit	damage (specify)):	(64				
				(68) Other fixe	ed object (sp	ecify):	
(36)		ury						
(38)	Other noncollis	ion (specify):		(69) Unknown	fixed object		
(39)	Noncollision —	details unknown		— Collis	ion with Non	fixed Object		
								other vehicle
	n With Fixed Obj			•	not in-tra			
	Tree (≤ 10 cm i			(71) Medium/l	heavy truck o	or bus not in-	transport
	Tree (> 10 cm i			(72) Pedestria	ın		•
(43)		ush		(73) Cyclist or			
(44)	Embankment			(74) Other no	nmotorist or	conveyance	
(45)	Breakaway pole	e or post (any dia	meter)	(75) Vehicle o	ccupant		
` ,	, ,	,	,) Animal	- oupunt		
Nonbrea	akaway Pole or F	Post) Train			
		10 cm in diamete	er)			isconnected	in transport	
		10 cm but ≤ 30 d		er) (79			le in-transpo	rt
(52)	Pole or post (>	30 cm in diamete	er)	(88)		nfixed object		-
(53)	Pole or post (dia	ameter unknown)	•				
<i>(= 1</i>)				(89) Unknown	nonfixed ob	oject	
(54)								
(55) (56)	Impact attenuat		il\	(98) Other eve	ent (specify):		
(30)		rier (includes gu	•	(99) Unknown	event or ob	iect	
	(0)			_ (55) Olikilowi	revent or ob	ject	
		5555141			4 = 4 = 4 = 4 = 4 = 4 = 4			
		DEFORMA	HON CLASS	IFICATION B				
Accident		(1) (2)			(4) Specific	(5) Specific	(6)	
Event		Direction	Incremental	(3)	Longitudinal	Vertical or	Type of	(7)
Sequence	•	of Force	Value of	Deformation	or Lateral	Lateral	Damage	Deformation
Number	Contacted	(degrees)	Shift	Location	Location	Location	Distribution	Extent
φ1	02	-5	φφ	F	D	E	W	02
							· -	<u> </u>
								
						 		
								
								
								
						-	-	

	COLLISION DEFORMATION CLASSIFICATION								
HIGHEST	DELTA "V"								
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent		
4. <u> </u>	5. <u>4</u> 2	6	7. <u> </u>	8. <u>D</u>	9. <u>E</u>	10. <u>W</u>	11. 4 2		
Second Highest Delta "V"									
12	13	14	15	16	17	18	19		
		CRUSI	H PROFILE	IN CENTIN	IETERS				
	The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.)								
HIGHEST [DELTA "V"								
20. L	21. 				C ₅	C ₆	22. ±D		
_14φ	φφΖ	<u>φ φ 9</u>	<u>φ2φ</u>	<u>φ3Φ</u> φ	30 4	<u> </u>	ø 13		
Second Hig	hest Delta "V"								
23. 	24. 			C.	C ₅	C ₆	25. ±D		
						+			
(Coded impact in (250) (998)	rmed End Width when highest se s an end plane i Code to the nea 250 centimeters No highest seve Unknown	everity impact.) rest centimeter	<u>1 4 φ</u>	(650)	Unknown	_	2 1 3		
(For high 0 (250) 2	amage Width hest severity imp Code to theneare 250 centimeters Unknown	est centimeter	114	(185)	I Average Track Code to the nea centimter 185 centimeters Unknown inches X 3	rest _	1 4 9		

			FUEL SYSTEM
30.	Are CDCs Documented	4	35. Location of Fuel Tank-1 Filler Cap 2
	but Not Coded on The Automated File? (0) No (1) Yes		36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane
31.	Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown		 (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane
32.	Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify):	<u> </u>	 (7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown
	(Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified	- - -	37. Type of Fuel Tank-1 38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown
	FIRE OCCURRENCE		39. Location of Fuel Tank-1
33.	Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown	φ	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered (5) Forward of center of the rear wheels (rear axle)
34.	Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown	Φ	(5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify):

			THE CYCLOTHE EXCENSION VEHICLE FORTH	raye t
43.	Leakage Location of Fuel System-1		47. Is This Vehicle Equipped With More Than Two Fuel Tanks?	φ
44.	Leakage Location of Fuel System-2 (0) No fuel tank		(0) No (one or two tanks only)	
	(0) No fuel tank (1) No fuel leakage		V 14 T T	
	(1) No luer leakage		Yes - More Than Two Tanks	
	Primary Area Of Leakage		(1) Yes - no damage to any tank or filler	
	(2) Tank		cap and <u>no fuel system leakage</u>	
	(3) Filler neck		(2) Yes – <u>no damage</u> to any tank or filler	
	(4) Cap		cap but there is fuel system leakage	
	(5) Lines/pump/filter		(specify leakage location):	
	(6) Vent/emission recovery		(2) Von domono do an additir da d	
	(8) Other (specify):		(3) Yes – <u>damage</u> to an additional tank or	
	(9) Unknown		filler cap and there is fuel system leakage	
	(5) STIKITOWIT		(specify the following):	
			Type of tank	
45.	Fuel Type-1	41	Tank location	
	. as yps 1		Filler cap location	
46.	Fuel Type-2	Φ Φ	Tank damage	
	. 15. Typo 1		Location of leakage	
	Single Fuel Type		Type of fuel	
	(00) No fuel tank		(9) Chikhowith more than two tanks	
	(01) Gasoline			
	(02) Diesel			
	(03) CNG (Compressed Natural Gas)		COMMENTS	
	(04) LPG (Liquid Petroleum Gas) also		OOMMEN 13	
	known as Propane			
	(05) LNG (Liquid Natural Gas)			
	(06) Methanol (M100 or M85)			
	(07) Ethanol (E100 or E85)			
	(08) Other (Hydrogen or others) (specify):			
				
	Electric Powered or Electric/Solar			
	Powered Vehicles			
	(10) Lead Acid Battery	İ		
	(11) Nickel-Iron Battery	ļ		
	(12) Nickel-Cadmium Battery			
	(13) Sodium Metal Chloride Battery			
	(14) Sodium Sulfur Battery			
	(18) Other (Specify):			
	(98) Other Hybrid (specify):			
1	(99) Unknown fuel type			
				-

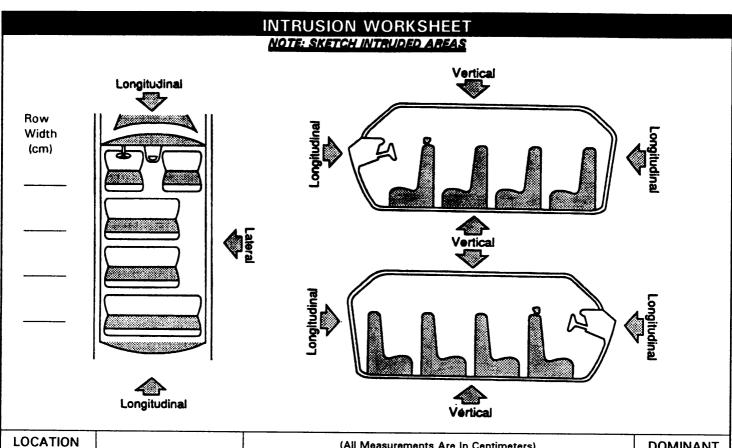
*** STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED ***

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

ational Highway Traffic Safety dministration	INTERIOR VE	HICLE FORM	NATIONAL ACCIDENT SAMPLING SYST CRASHWORTHINESS DATA SYST
1 Primary Campling Unit Number			GLAZING
Primary Sampling Unit Number		Type of Window/Wir	ndshield Glazing
2. Case Number - Stratum	AB 12	15. WS / 16. LF 4	17. RF <u>4</u> 18. LR <u>4</u> 19. RR 4
3. Vehicle Number	<u>#1</u>	20. BL <u>4</u> 21. Roof <u>4</u>	
INTEGRITY			
4. Passenger Compartment Integrity (00) No integrity loss	φ φ	(0) No glazing (1) AS-1 — Lamina (2) AS-2 — Temper (3) AS-3 — Temper	ed
Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door)			ed-tinted (with additional after market tint) Plastic
(O4) Roof (O5) Roof glass		(9) Unknown	
(06) Side window (07) Rear window (backlight)		Window Precrash Gla	azing Status
(08) Roof and roof glass (09) Windshield and door (side)		23. WS <u>/</u> 24. LF <u>/</u>	25. RF Z 26. LR Z 27. RR Z
(10) Windshield and roof (11) Side and rear window (side window a	and backlight)	28. BL_/ 29. Roof_C	⊅ 30. Other_/
(12) Windshield and side window(13) Door and side window(98) Other combination of above (specify)		(0) No glazing (1) Fixed	
(99) Unknown	· 	(2) Closed (3) Partially opened	
, ,	NAM NO BE	(4) Fully opened (7) Glazing removed (9) Unknown	prior to accident
Door, Tailgate or Hatch Opening	por open	Glazing Damage from	a Impact Forces
5. LF <u>/</u> 6. RF <u>/</u> 7. LR <u>/</u> 8. RR <u>/</u>	_9. TG/H <u>Ψ</u>		33. RF / 34. LR / 35. RR /
(0) No door/gate/hatch (1) Door/gate/hatch remained closed and (operational	36. BL <u>/</u> 37. Roof_	4 38. Other_/
(2) Door/gate/hatch came open during coll(3) Door/gate/hatch jammed shut	ision	(O) No glazing	
(8) Other (specify):			ge from impact forces and cracked from impact forces
(9) Unknown		(3) Glazing in place (4) Glazing out-of-pl	and holed from impact forces ace (cracked or not) and not holed from
		impact forces (5) Glazing out-of-pl	ace and holed from impact forces
Damage/Failure Associated with Door, Opening in Collision. If IV05-IV09 ≠ 2,	Tailgate or Hatch Then code Ø	(7) Glazing disintegr (7) Glazing removed (9) Unknown if dam	
10. LF <u> </u>	<u>⊅</u> 14. TG/H <u></u>	Glazing Damage from	
(O) No door/gate/hatch or door not opened	1		41. RF / 42. LR / 43. RR /
Door, Tailgate or Hatch Came Open During (1) Door operational (no damage)	Collision	44. BL / 45. Roof <u>4</u>	46. Other/
(2) Latch/striker failure due to damage		(0) No glazing (1) No occupant con	test to alexing
(3) Hinge failure due to damage		(2) Glazing contacte	tact to glazing d by occupant but no glazing damage
(4) Door structure failure due to damage(5) Door support (i.e., pillar, sill, roof side	rail,	(3) Glazing in place a	and cracked by occupant contact
etc.) failure due to damage		(4) Glazing in place a	and holed by occupant contact ace (cracked or not) by occupant
(6) Latch/striker and hinge failure due to d(8) Other failure (specify):	amage	contact and not i	noled by occupant contact ace by occupant contact and holed by
(9) Unknown		occupant contact (7) Glazing removed	t prior to accident
			ated by occupant contact

(9) Unknown if contacted by occupant



LOCATION OF INTRUSION	INTRUDED COMPONENT	(All Measu COMPARISON VALUE —	rements Are In Centimeters) INTRUDED VALUE =	INTRUSION	DOMINANT CRUSH DIRECTION
		_	=		
		_	=		
		_			
		_	=		
		/-	=		
		-	=		
		_	=		
		_	=		
			=		
		_	=		
		_	=		
		-	=		
		-	=		
		_	=		
		_	=		

OCCUPANT AREA INTRUSION

Note: If no intrusions, leave variables IV47-IV86 blank.								
·	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction				
1st	47	48	49	50				
2nd	51	52	_ 5/3	54				
3rd	55	56	57	58				
4th	59	60	61	62				
5th	63	6/4	65	66				
6th	67	/ 68	69	70				
7th	71	72	73	74				
8th	75	76	77	78				
9th	79.	80	81	82				
10th	83	84	85	86.				

LOCATION OF INTRUSION

rront Seat					
(11)	Left				
(12)	Middle				
(13)	Right				
Second	l Seat				

F---- C---

(21) Left (22) Middle (23) Right

Third Seat (31) Left

(32) Middle (33) Right

Fourth Seat

(41) Left (42) Middle

(43) Right

(97) Catastrophic

(98) Other enclosed area (specify)

(99) Unknown

INTRUDING COMPONENT

Interior Components

(01) Steering assembly

(02) Instrument panel left

(03) Instrument panel center

(04) Instrument panel right

(05) Toe pan

(06) A (A1/A2)-pillar

(07) B-pillar

(08) C-pillar

(09) D-pillar

(10) Side panel - forward of the A1/A2-pillar

(11) Door panel (side)

(12) Side panel - rear of the B-pillar

(13) Roof (or convertible top)

(14) Roof side rail

(15) Windshield

(16) Windshield header

(17) Window frame

(18) Floor pan (includes sill)

(19) Backlight header

(20) Front seat back

(21) Second seat back

(22) Third seat back

(23) Fourth seat back (24) Fifth seat back

(25) Seat cushion

(26) Back door/panel (e.g., tailgate)

(27) Other interior component (specify):

Exterior Components

(30) Hood

(31) Outside surface of this vehicle (specify):

(32) Other exterior object in the environment (specify):

(33) Unknown exterior object

(97) Catastrophic

(98) Intrusion of unlisted component(s) (specify):

(99) Unknown

MAGNITUDE OF INTRUSION

(1) ≥ 3 centimeters but < 8 centimeters

(2) ≥ 8 centimeters but < 15 centimeters

(3) ≥ 15 centimeters but < 30 centimeters

(4) ≥ 30 centimeters but < 46 centimeters

(5) ≥ 46 centimeters but < 61 centimeters

(6) ≥ 61 centimeters

(7) Catastrophic

(9) Unknown

DOMINANT CRUSH DIRECTION

(1) Vertical

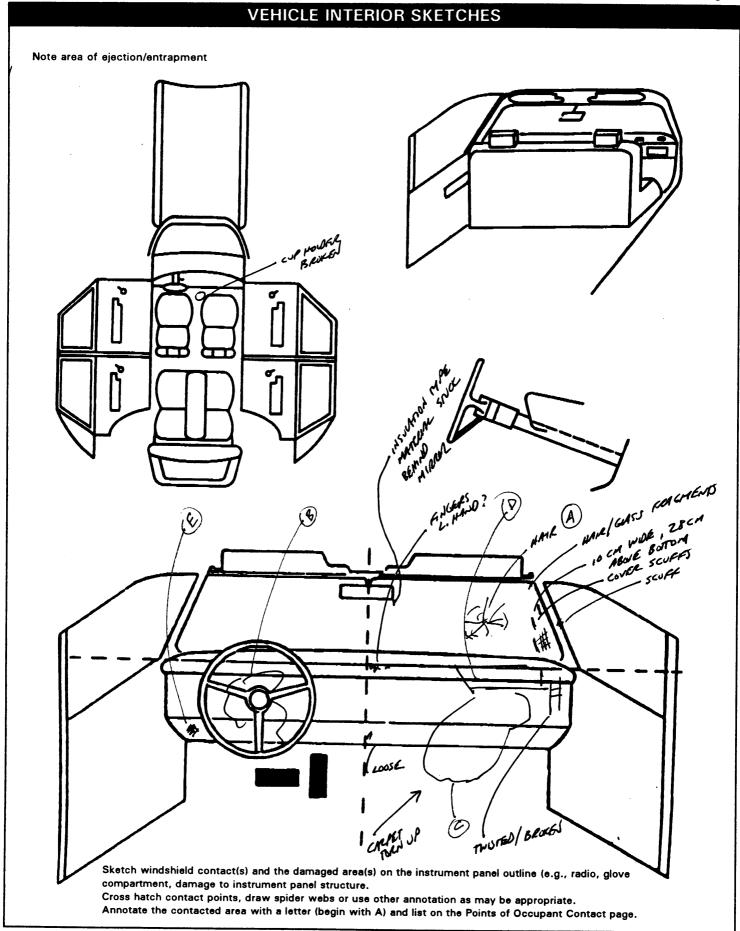
(2) Longitudinal

(3) Lateral

(7) Catastrophic

(9) Unknown

(All Measurements Are in Centimeters)							
COMPARISON VALUE		DAMAGE VALUE	=	DEFORMATION			
	_		=				
			=				
	-		=				
/	<u></u>		=				



MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page 11.

If the vehicle has automatic restraints available, encode the appropriate data on page 6.

		Left	Center	Right
	A-Availability	4		4
F	B-Evidence of usage	4 4		04
R	C-Used in this crash?	YES / DRIP ATTERN		· YES/LOGANGYINT.
S	D-Proper Use	/		φ
Т	E-Failure Modes	/		φ
	F-Anchorage Adjustment	3	7	3- 1 aick HIGHER MAN
	A-Availability	4	3	4
s	B-Evidence of usage	04	<i>43</i>	44
SECO	C-Used in this crash?	No	No	YES
ŏ	D-Proper Use	φ	φ	1
Ň D	E-Failure Modes	4	4	1
	F-Anchorage Adjustment	1	Φ	1
	A-Availability			
0	B-Evidence of usage			
Ť	C-Used in this crash?			
H E	D-Proper Use			
R	E-Failure Modes			
	F-Anchorage Adjustment			

A-Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

B/C-Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown
- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

D-Proper Use of Manual (Active) Belts

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety

Belt Used Improperly

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): _____
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

E-Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

F-Shoulder Belt Upper Anchorage Adjustment

- (0) No shoulder belt
- (1) No upper anchorage adjustment for shoulder belt

Adjustable shoulder Belt Upper Anchorage

- (2) In full up position
- (3) In mid position
- (4) In full down position
- (5) Position unknown
- (9) Unknown if position has adjustable upper anchorage adjustment

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

AIR BAGS

		Frontal Air BagsLeft Front	Frontal Air Bags-Right Front	OtherAir Bag
F	Availability/Function	/	/	/
R	Deployment	/	/	
T	Failure	/	/	

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

AUTOMATIC BELTS

		Left	Right
F I R S T	A-Availability/Function	/	/
	B-Use		
	С-Туре		
	D-Proper Use	1	
	E-Failure Modes		

A-Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

B-Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

C-Automatic (Passive) Belt System Type

- (O) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

D-Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify):

(8)	Other improper use of automatic b	el
	system	
	(enecify).	

(9) Unknown

E-Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data *for the driver and first seat passenger* in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
A-Type of air bag?	/	/
B-Flaps open at tear points?	2	Z
C-Flaps damaged?		2
D-Air bag damaged?	Ø 1	6/
E-Source of air bag damage	0/	6 /
F-Air bag tethered?		/
G-Air bag have vent ports?	2, 2	2, 2
H-Other occupant contact air bag?	7	2
I-Occupant wearing eyewear?	4	4

A-Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

B-Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

C-Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

D-Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

E-Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

F-Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

G-Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

H-Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

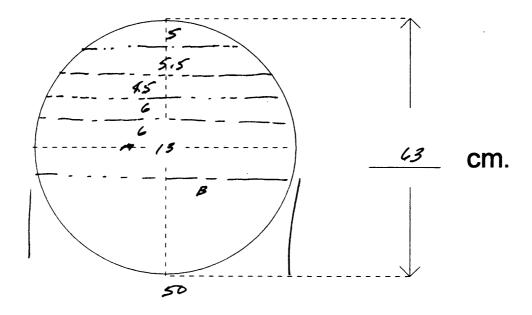
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

I-Was This Occupant Wearing Eye-wear?

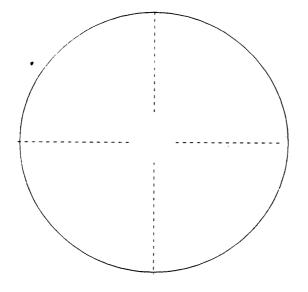
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)

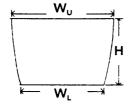


DRIVER AIR BAG SKETCHES (Cont'd)

3. DRIVER AIR BAG MODULE COVER FLAP SIZE (SINGLE)

width (W_U) _____ width (W_L) _____

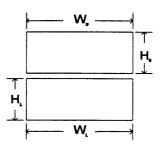
height (H)



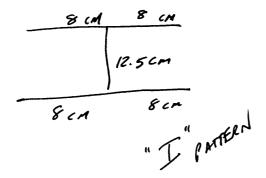
- 4. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)
 - a. Upper Flap
- b. Lower Flap

width (W_U) _____ width (W_L) ____

height (H_U) _____ height (H_L) _____

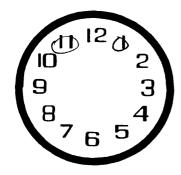


5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP **AND SIZE**



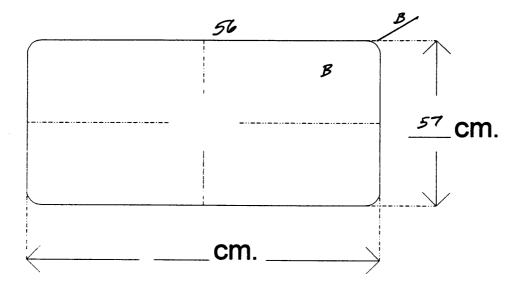
6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT **PORTS**

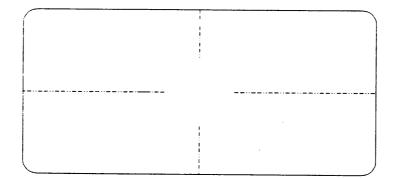


PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)

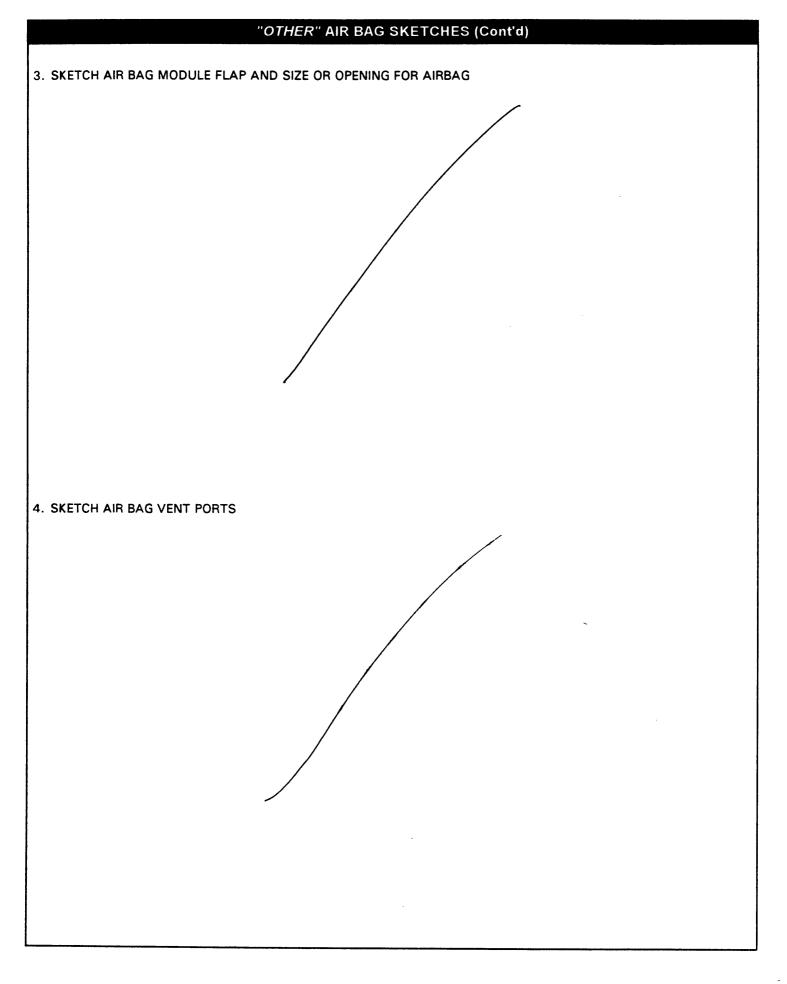


2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



PASSENGER AIR BAG SKETCHES (Cont'd) 4. PASSENGER AIR BAG MODULE COVER FLAP SIZE 3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) (DOUBLE) a. Upper Flap b. Lower Flap width (W) width (W_U) ____ width (W_L) ____ height (H) _____ height (H_U) _____ height (H_L) _____ - W. -H H, ---- W ----H, 5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP 6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS AND SIZE 54 cm 24 cm 31 cm Oil transfer SRS Glass slivers 37 cm Skin transfer

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES 1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front) 2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)



HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found on the next page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	A-Head Restraint Type/Damage	3		3
	B-Seat Type	ΦI		Ø
	C-Seat Orientation	,	/	1
	D-Seat Track Position	2		6
R S	E-Seat Back Incline Pre/Post Impact	14		14
Ť	F-Seat Performance	1	/	1
	A-Head Restraint Type/Damage	Φ	Ø	Ø
	B-Seat Type	\$3	<i>Ø3</i>	φ3
	C-Seat Orientation	/	1	1
S E	D-Seat Track Position	/	1	1
C	E-Seat Back Incline Pre/Post Impact	\$ /	ø /	0/
N	F-Seat Performance	1	,	1
	A-Head Restraint Type/Damage			
	B-Seat Type			
-	C-Seat Orientation			
H	D-Seat Track Position			
R	E-Seat Back Incline Pre/Post Impact			
D	F-Seat Performance			
	A-Head Restraint Type/Damage			
	B-Seat Type			
o	C-Seat Orientation			
T H	D-Seat Track Position			
E R	E-Seat Back Incline Pre/Post Impact			-
n	F-Seat Performance			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

A-Head Restraint Type/Damage by E-Seat Back Incline Prior and Post Occupant at This Occupant Position Impact (O) No head restraints (00) Occupant not seated or no seat (1) Integral — no damage(2) Integral — damaged during (01) Not adjustable Upright prior to impact accident (11) Moved to completely rearward (3) Adjustable - no damage 14 13 15 position (4) Adjustable - damaged during (12) Moved to rearward midrange 16 12 accident position (5) Add-on — no damage Moved to slightly rearward (13)11 (6)Add-on — damaged during position accident (14) Retained pre-impact position (8)Other (15)Moved to slightly forward position Specify): (16)Moved to forward midrange (9) Unknown position (17)Moved to completely forward position **B-Seat Type (this Occupant Position)** Slightly reclined prior to impact (00) Occupant not seated or no (21) Moved to completely rearward 24 seat 25 23 position (01) Bucket 22 26 (22)Moved to rearward midrange (02)Bucket with folding back position (03) Bench Retained pre-impact postion 27 21 (23)(04) Bench with separate back (24)Moved to upright position cushions Moved to slightly forward position (25)Bench with folding back(s) (05)(26)Moved to forward midrange (06) Split bench with separate back position cushions (27)Moved to completely forward (07)Split bench with folding position back(s) (08) Pedestal (i.e., column Completely reclined prior to impact supported) Retained pre-impact position (31) (09) Box mounted seat (i.e., van (32)Moved to rearward midrange type) position (10) Other seat type (specify): 35 34 33 (33)Moved to slightly rearward 36 32 position (99) Unknown (34)Moved to upright position (35)Moved to slightly forward position 37 31 (36)Moved to forward midrange position C-Seat Orientation (this Occupant Moved to completely forward (37)Position) position (0)Occupant not seated or no seat (99) Unknown Forward facing seat (2)Rear facing seat (3) Side facing seat (inward) (4)Side facing seat (outward) Position Prior and Post Impact F-Seat Performance (this Occupant (8) Other (specify): Position) (0)Occupant not seated or no seat (9)Unknown (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): **D-Seat Track Adjusted Position Prior** To Impact (4)Seat tracks/anchors failed (0) Occupant not seated or no (5)Deformed by impact of occupant Deformed by passenger (6)Non-adjustable seat track (1) compartment intrusion (specify):

Adjustable Seat Track

- Seat at forward most track (2)position
- (3) Seat between forward most and middle track positions
- (4)Seat at middle track position
- (5)Seat between middle and rear most track positions
- (6)Seat at rear most track position
- (9) Unknown

- (7)Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Coding diagrams for Seat Back Incline

HS Form 435C (Rev. 1/96)

When a child safety seat is present enter th	ne occupant's r	numb	LD ASSESSMENT ber in the first row and complete the column below te a column for each child safety seat present.
Occupant Number			Sout present.
Type of Child Safety Seat			
2. Child Safety Seat Orientation			
3. Child Safety Seat Harness Usage			
4. Child Safety Seat Shield Usage			
5. Child Safety Seat Tether Usage			
6. Child Safety Seat Make/Model			
Specify 1. Type of Child Safety Seat	Below for Each	Chi	nild Safety Seat
 (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify) (8) Unknown child safety seat type (9) Unknown if child safety seat used 2. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed for Forward Facing for This Age/Weight (11) Rear facing 	v): —	5.	Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5. (00) No child safety seat Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used
(12) Forward facing (18) Other orientation (specify):			(22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
(19) Unknown orientation			(99) Unknown if child safety seat used
Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):		6.	Child Safety Seat Make/Model (Specify make/model and occupant number)
(99) Unknown if child safety seat used			

\mathbf{F} I	ECT	ואטו	/ENIT	DVD	MENT	DATA
בע	LUI			INATE		

Complete the following if the researcher has any indication that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occupant Assessment Form.					
EJECTION No [1/] Yes [] Describe indications of ejection and body parts involved in partial ejection(s):					
Occupant Number					
Ejection					
(Note on Vehicle Interior Sketch) Ejection Area					
Ejection Medium					
Medium Status					
Ejection (7) Roof (5) Integral structure (1) Complete ejection (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown (9) Unknown (9) Unknown					
Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (9) Unknown (9) Unknown (9) Unknown (9) Unknown (1) Medium Status (Immediately Print to Impact) (1) Open (2) Nonfixed roof structure (2) Closed (3) Integral structure (4) Nonfixed glazing (specify): (5) Right rear (6) Rear					
ENTRAPMENT No [\(\sqrt{Y}\) Yes [Describe entrapment mechanism:	•				
Component(s):					
(Note on vehicle interior sketch)					

U.S. Department of Transportation OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM
Primary Sampling Unit Number	GRASHWORTHINESS DATA SYSTEM OCCUPANT'S SEATING
2. Case Number - Stratum AB (2	10. Occupant's Seat Position
3. Vehicle Number ϕ /	Front Seat (11) Left side
4. Occupant Number	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify): (15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknowninches X 2.54 =centimeters	(43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight 9 9 9 Code actual weight to the nearest kilogram. (999) Unknown pounds X .4536 = kilograms	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	(2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

E	JECTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	Φ	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	φ	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	<u>φ</u> 	disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown

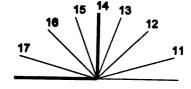
				TEM FUNCTION	
18.	(0) (1)	nual (Active) Belt System Availability None available Belt removed/destroyed	4	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder be	<u>3</u> elt
	(2) (3) (4) (5)	Shoulder belt Lap belt Lap and shoulder belt Belt available—type unknown		Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position	
		egral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):	:	 (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 	~
	(9)	Unknown	-	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available	<u>φ</u>
19.	(00)	nual (Active) Belt System Use) None used, not available, or belt removed/destroyed) Inoperative (specify):	<u>φ4</u>	(1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional	
	(03) (04) (05)	Shoulder belt Lap belt Lap and shoulder belt Belt used—type unknown	•	(4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use	φ
	(08) (12) (13)	Other belt used (specify): Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child		(0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):	•
	(15) (18)	Other belt used with child safety seat	wn	(3) Automatic belt use unknown (9) Unknown	·
20		(specify): Unknown if belt used per Use of Manual (Active) Belts	,	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system	<u>v</u>
20.	(0) (1)	None used or not available Belt used properly		Belt System	Φ
	Belt (3) (4) (5)	Used Improperly Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person		 (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat 	
	(6) (7)	Lap belt worn on abdomen Lap belt or lap and shoulder belt used improperly with child safety seat (specify):		Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than	
	(Other improper use of manual belt system (specify):		one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or	
	` '	Unknown ual (Active) Belt Failure Modes	,	automatic shoulder belt used improperly	
	Durin (0) 1 (1) 1	ng Accident No manual belt used or not available No manual belt failure(s) Torn webbing (stretched webbing not		with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	
((3) E (4) U	included) Broken buckle or latchplate Upper anchorage separated Other anchorage separated (specify):		27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use	<u> </u>
((<u>6</u>) Ē	Broken retractor Combination of above (specify):		(1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated	
Ì	_	Other manual belt failure (specify):		(5) Other anchorage separated (specify):	
((9) T	Unknown		(6) Broken retractor(7) Combination of above (specify):(8) Other automatic belt failure (specify):	
				(9) Unknown	

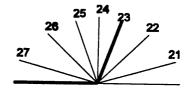
POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):
	(9) Unknown

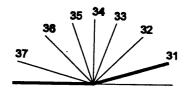
FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown 38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed (9) Unknown
Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown 39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn (05) Holed (06) Burned (07) Abraded (08) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

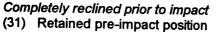
FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown 46. Did The Air Bag Have Vent Ports?	(07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat
(0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown	(2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form HEAD RESTRAINT AND SEAT EVALUATION continued 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position Slightly reclined prior to impact (21) Moved to completely rearward position (22) Moved to rearward midrange position









(23) Retained pre-impact position (24) Moved to upright position

(25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position

- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat

 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):____
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown

	C	HILD S	AFETY SEAT
55. Ch	nild Safety Seat Make/Model	4 4	58. Child Safety Seat Harness Usage φ φ
(00	00) No child safety seat	<u>-</u>	_ 58. Child Safety Seat Harness Usage
А́р	plicable codes are found in your NASS CI	DS	
Da	ita Collection, Coding and Editing		59. Child Safety Seat Shield Usage Φ φ
(95	50) Built-in child safety seat		
(99	97) Other make/model (specify):		
			60. Child Safety Seat Tether Usage
	98) Unknown make/model		
(99	99) Unknown if child safety seat used		Note: Options below applicable to
se Tvi	f Ohiid Oufut : Out	φ	Variables OA58-OA60.
	pe of Child Safety Seat		(00) No child safety seat
	No child safety seat Infant seat		
	Toddler seat		Not Designed With Hamess/Shield/Tether
	Convertible seat		(01) After market harness/shield/tether
	Booster seat - with shield		added, not used
	Booster seat - with shield Booster seat - without shield		(02) After market harness/shield/tether used
	Other type child safety seat (specify):		(03) Child safety seat used, but no after market harness/shield/tether added
V-/	Other type offine seriety seek (openity).		(09) Unknown if harness/shield/tether
(8)	Unknown child safety seat type		added or used
	Unknown if child safety seat type		added or used
• •	ommoni, ii omma danci, addi. addi.		Designed With Hamess/Shield/Tether
			(11) Harness/shield/tether not used
57. Chi	ld Safety Seat Orientation	49	(12) Harness/shield/tether used
(00)	No child safety seat		(19) Unknown if harness/shield/tether used
(01) (02) (08) (09) Des (11) (12) (18) (19) Unki	nown Design or Orientation For This Weight, or Unknown Age/Weight	_	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used
(21)	Rear facing		
(22)	Forward facing		
(28)	Other orientation (specify):	ı	
(29)	Unknown orientation	!	
(99)	Unknown if child safety seat used		·

INJURY CONSEQUENCES			
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment	<u> </u>	<u></u>	<u>φ</u>
(1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown		(00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown	9
STOR	P WO	RK HERE	

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

U.S. Department of Transportation National Highway Traffic Safety Administration GENERAL VE	HICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number 4 B / Z 4 Z	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown
VEHICLE IDENTIFICATION	45 mph X 1.6093 = 472 kmph
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	(8) No driver present (9) Unknown 14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx)
6. Vehicle Model (specify): TEMPO (ALL WHEEL DENK) Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	(95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:
7. Body Type Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present
8. Vehicle Identification Number 1 F A B P 3 9 5 4 H K X X X X X X X X X X X X X X X X X X	(1) Yes other drug(s) present (7) Not reported (8) No driver present (9) Unknown
Left justify; Slash zeros and letter Z (Ø andZ) No VIN—Code all zeros Unknown—Code all nines 9. Vehicle Special Use (This Trip)	16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
(0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military	(3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given
(5) Police	17. Driver's Zip Code
(6) Ambulance (7) Fire truck or car (8) Other (specify):(9) Unknown	(00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99998) No driver present

OFFICIAL RECORDS

10. Police Reported Vehicle Disposition

(1) Towed due to vehicle damage (9) Unknown			
11. Police Reported Travel Speed	9	9	9
Code to the nearest kmph (NOTE: 000	mea	ns	
less than 0.5 kmph)			
(160) 159.5 kmph and above			
(999) Unknown			
mph X 1.6093 = kmph			

18. Driver's Race/Ethnic Origin	9
(1) White (non-Hispanic)	
(2) Plack (non Hispania)	

- (2) Black (non-Hispanic)
 (3) White (Hispanic)
 (4) Black (Hispanic)
 (5) American Indian, Eskimo or Aleut
- (6) Asian or Pacific Islander(7) Other (specify):
- (8) No driver present
- (9) Unknown

(99999) Unknown

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Čab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

PRECRASH ENVIRONMENTAL DATA	25. Roadway Surface Condition
19. Relation To Interchange Or Junction (0) Non-interchange area and non-junction (1) Interchange area related Non-Interchange junctions (2) Intersection related (3) Driveway, alley access related (4) Other junction (specify)	(1) Dry (2) Wet (3) Snow or slush (4) Ice (5) Sand, dirt, or oil (8) Other (specify): (9) Unknown
(5) Unknown type of junction (9) Unknown 20. Trafficway Flow (0) Not physically divided (two way traffic) (1) Divided trafficway-median strip without positive	26. Light Conditions (1) Daylight (2) Dark (3) Dark, but lighted (4) Dawn (5) Dusk (9) Unknown
barrier (2) Divided trafficway-median strip with positive barrier (3) One way traffic (9) Unknown	27. Atmospheric Conditions (0) No adverse atmospheric-related driving conditions (1) Rain (2) Sleet/hail
21. Number Of Travel Lanes (1) One (2) Two (3) Three (4) Four (5) Five (6) Six (7) Seven or more (9) Unknown	(3) Snow (4) Fog (5) Rain and fog- (6) Sleet and fog (7) Other (e.g., smog, smoke, blowing sand or dust, etc.) (specify): (9) Unknown 28. Traffic Control Device (0) No traffic control(s) (1) Traffic control signal (not RR crossing)
22. Roadway Alignment (1) Straight (2) Curve right (3) Curve left (9) Unknown	Regulatory (2) Stop sign (3) Yield sign (4) School zone sign (5) Other regulatory sign (specify):
23. Roadway Profile (1) Level (2) Uphill grade (>2%) (3) Hill crest (4) Downhill grade (>2%) (5) Sag (9) Unknown	(6) Warning sign (not RR crossing) (7) Unknown sign (8) Miscellaneous/other controls including RR controls (specify): (9) Unknown
24. Roadway Surface Type (1) Concrete (2) Bituminous (asphalt) (3) Brick or block (4) Slag, gravel, or stone (5) Dirt (8) Other (specify):	29. Traffic Control Device Functioning (0) No traffic control device (1) Traffic control device not functioning (specify) : (2) Traffic control device functioning properly (9) Unknown

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30.	Driver's Distraction/Inattention To Driving (Prior To Recognition Of Critical Event)	(10) Over the lane line on left side of travel lane(11) Over the lane line on right side of travel lane(12) Off the edge of the road on the left side
	(00) No driver present	(13) Off the edge of the road on the right side
	(01) Attentive or not distracted (02) Looked but did not see	(14) End departure
	Distractions	(15) Turning left at intersection (16) Turning right at intersection
	(03) By other occupant(s), (specify):	(17) Crossing over (passing through) intersection
	(04) By moving object in vehicle (specify):	(18) This vehicle decelerating (19) Unknown travel direction
	(05) While talking or listening to cellular phone (specify location and type of phone):	Other Motor Vehicle In Lane (50) Other vehicle stopped
	(06) While dialing cellular phone (specify location and type of phone):	(51) Traveling in same direction with lower steady speed (52) Traveling in same direction while decelerating
	(07) While adjusting climate controls	(53) Traveling in same direction with higher speed
	(08) While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction (55) In crossover
	(09) While using other device/object in vehicle (specify):	(56) Backing
		(59) Unknown travel direction of other motor vehicle in lane
	(10) Sleepy or fell asleep(11) Distracted by outside person, object, or event	Other Motor Vehicle Encroaching Into Lane
	(specify):	(60) From adjacent lane (same direction)—over left
	(12) Eating or drinking	lane line (61) From adjacent lane (same direction)—over right
	(13) Smoking related (97) Distracted/inattentive, details unknown	lane line
	(98) Other, distraction (specify):	(62) From opposite direction—over left lane line
		(63) From opposite direction—over right lane line (64) From parking lane
	(99) Unknown	(65) From crossing street, turning into same direction
31.	Pre-Event Movement (Prior to	(66) From crossing street, across path
	Recognition of Critical Event)	(67) From crossing street, turning into opposite
	(00) No driver present (01) Going straight	direction (68) From crossing street, intended path not known
	(02) Decelerating in traffic lane	(70) From driveway, turning into same direction
	(03) Accelerating in traffic lane	(71) From driveway, across path
	(04) Starting in traffic lane	(72) From driveway, turning into opposite direction
	(05) Stopped in traffic lane	(73) From driveway, intended path not known
	(06) Passing or overtaking another vehicle (07) Disabled or parked in travel lane	(74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown
	(08) Leaving a parking position	(76) Elicioacimient by other vernore details and other
	(09) Entering a parking position	Pedestrian, Pedalcyclist, or Other Nonmotorist
	(10) Turning right	(80) Pedestrian in roadway
	(11) Turning left	(81) Pedestrian approaching roadway
	(12) Making a U-turn (13) Backing up (other than for parking position)	(82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway
	(14) Negotiating a curve	(specify):
	(15) Changing lanes	(84) Pedalcyclist or other nonmotorist approaching
	(16) Merging	roadway, (specify):
	(17) Successful avoidance maneuver to a previous	(85) Pedalcyclist or other nonmotorist—unknown location (specify):
	critical event (97) Other (specify):	
	(99) Unknown	Object or Animal (87) Animal in roadway
	16	(88) Animal approaching roadway
32.	Citical Freciasi Event	(89) Animal—unknown location
	This Vehicle Loss of Control Due To:	(90) Object in roadway
	(01) Blow out or flat tire	(91) Object approaching roadway (92) Object—unknown location
	(02) Stalled engine (03) Disabling vehicle failure (e.g., wheel fell off)	(98) Other critical precrash event (specify):
	(specify):	
	(04) Non-disabling vehicle problem (e.g., hood flew up)	(99) Unknown
	(specify):(05) Poor road conditions (puddle, pot hole, ice, etc.)	
	(specify):	
	(06) Traveling too fast for conditions(08) Other cause of control loss (specify):	
	(00) Other cause or control loss (specify).	

(09) Unknown cause of control loss

33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering right (12) Accelerating and steering right (98) Other action (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown 36. Accident Type (Note: Applicable codes on back of this page) (00) No impact Code the number of the diagram that best
34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify): (9) Precrash stability unknown	describes the accident circumstance (98) Other accident type (specify): (99) Unknown

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

OCCUPANT RELATED	44. Vehicle Cargo Weight 9, 9 9 0
37. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	Code weight to nearest 10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown lbs X .4536 = kgs
38. Number of Occupants This Vehicle (00-96) Code actual number of occupants	Source:
for this vehicle (97) 97 or more	ROLLOVER DATA
 (99) Unknown 39. Number of Occupant Forms Submitted Φ ! 	45. Rollover (00) No rollover (no overturning) Φ Φ
AIR BAG RELATED	Rollover (primarily about the longitudinal axis) (01-16) Code the number of quarter turns (17) Rollover, 17 or more quarter turns (specify):
40. Is this an AOPS Vehicle? (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts	 (98) Rollover-end-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown 46. Rollover Initiation Type (00) No rollover
 41. Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag, unknown if deployed 	(01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over (05) Fall-over (06) Bounce-over (07) Collision with another vehicle
Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if deployed (8) Air bag(s) deployed, details unknown (9) Unknown 42. Air Bag(s) Deployment, Other Than First Seat Frontal	(08) Other rollover initiation type specify): (98) Rolloverend-over-end (99) Unknown rollover initiation type 47. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulderpaved (3) On shoulderunpaved (4) On roadside or divided trafficway median (8) Rolloverend-over-end (9) Unknown
 (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown Specify type of "other" air bag present:	 48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page) 49. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify):
VEHICLE WEIGHT ITEMS	(6) Non-contact rollover forces (specify): (8) Rollover-end-over-end (9) Unknown
43. Vehicle Curb Weight	7

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) N (01-30)	lo rollover) — Vehicle Number	(57) (58)	Wall
(32) N	ion urn-over — fall-over lo rollover impact initiation (end-over-end) ackknife	(60) (61) (62) (63)	Building Ditch or culvert Ground Fire hydrant Curb Bridge
Collision \	With Fixed Object	(68)	Other fixed object (specify):
(41) T (42) T	ree (≼ 10 cm in diameter) ree (> 10 cm in diameter)	(69)	Unknown fixed object
(43) S (44) E	hrubbery or bush mbankment	Collisio (70)	n with Nonfixed Object Passenger car, light truck, van, or other vehicl
(45) B	reakaway pole or post (any diameter)	(71)	not in-transport Medium/heavy truck or bus not in-transport
(50) P (51) P (52) P	kaway Pole or Post Pole or post (≤ 10 cm in diameter) Pole or post (> 10 cm but ≤ 30 cm in diameter) Pole or post (> 30 cm in diameter) Pole or post (diameter unknown)	(76) (77) (78) (79)	Animal Train Trailer, disconnected in transport Object fell from vehicle in-transport Other nonfixed object (specify):
(54) C	Concrete traffic barrier	(89)	Unknown nonfixed object
(56) C	npact attenuator Other traffic barrier (includes guardrail)	(98)	Other event (specify):
(:	specify):	(99)	Unknown event or object

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle) Φ	HIGHEST DELTA V
 52. Rear Override/Underride (this Vehicle) Φ (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and 	(highest)
no medium/heavy truck or bus underride	(00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm
Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
(7) Medium/heavy truck or bus override (of any configuration)(9) Unknown	All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction
HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	program or other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown 53. Heading Angle For This Vehicle 2 9 Ф	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object
54. Heading Angle For Other Vehicle / β φ	(10) Overlapping damage
RECONSTRUCTION DATA	(11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction
55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	programs, but there is insufficient data available, ———————————————————————————————————
56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	
 57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): (9) Unknown 	_
• •	

COMPUTER GENE	RATED CRASH SEVERITY
59. Total Delta V <u>φ 3 3</u> Nearest kmph (highest)	<u> </u>
Nearest kmph (secondary)	Nearest kmph (highest) Nearest kmph (secondary)
60. Longitudinal Component of Delta V +	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above hest (998) Trajectory algorithm not run
Nearest kmph (highest)	DELTA V CONFIDENCE LEVEL
Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown Hig	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
2/0	OTHER SPEED ESTIMATE
Nearest kmph (highest) Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown 62. Energy Absorption Nearest 100 joules (highest) Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown	Highest 65. Barrier Equivalent
IS MISSING VEHICLE ALGORITHM APP	PLICABLE FOR THIS VEHICLE? 1/1 YES 1 1 NO

IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [YES [] NO

ESTIMATED DELTA V	VEHICLE INSPECTION
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	OCCUPANT'S SEATING
1.4	10. Occupant's Seat Position
2. Case Number - Stratum 4012	Front Seat
3. Vehicle Number 4 Z	(11) Left side
	(12) Middle
4. Occupant Number 4 /	(13) Right side (14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
	(10) on or in the lap of another occupant
5. Occupant's Age 41	Second Seat
Code actual age at time of accident.	(21) Left side
(00) Less than one year old (specify by month):	(22) Middle
(07) 07 years and older	(23) Right side
(97) 97 years and older (99) Unknown	(24) Other (specify):(25) On or in the lap of another occupant
(00) Olikilowii	(25) on or in the tap or another occupant
	Third Seat
1	(31) Left side
6. Occupant's Sex	(32) Middle
(1) Male	(33) Right side
(2) Female-not reported pregnant(3) Female-pregnant-1st trimester(1st-3rd month)	(34) Other (specify):(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month)	(33) On or in the lap of another occupant
(5) Female-pregnant-3rd trimester(7th-9th month)	Fourth Seat
(6) Female-pregnant-term unknown	(41) Left side
(9) Unknown	(42) Middle -
	(43) Right side
	(44) Other (specify):
7. Occupant's Height 9 9 9	(45) On or in the lap of another occupant
Code actual height to the nearest	(97) In or on unenclosed area
centimeter.	(98) Other seat (specify):
(999) Unknown	(99) Unknown
inches X 2.54 = centimeters	·
8. Occupant's Weight 999	11. Occupant's Posture 9
Code actual weight to the nearest	(0) Normal posture
kilogram.	
(999) Unknown	Abnormal posture (1) Kneeling or standing on seat
	(2) Lying on or across seat
pounds X .4536 = kilograms	(3) Kneeling, standing or sitting in front of seat
9. Occupant's Role	(4) Sitting sideways or turned to talk with another occupant or to look out a rear window
(1) Driver	(5) Sitting on a console
(2) Passenger	(6) Lying back in a reclined seat position
(9) Unknown	(7) Bracing with feet or hands on a surface in front of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
•	
S Form 433A (1/96) This report is authorized by P.L. 89-563	Title 1. Section 106, 108, and 112. While you are not required to

EJEC	TION/E	NTRAPMENT
2. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	φ	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown 16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained
(1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown		(2) Could not exit vehicle due to jammed doors, fire, etc. (specify):
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	φ	 (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

		BELT SYSTE	VI FUNCTION	
18.	(0) (1) (2) (3)	ual (Active) Belt System Availability None available Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available—type unknown	 22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position 	9
	<i>Inte</i> (6) (7) (8)	gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):	 (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 	
	(9)	Unknown	23. Automatic (Passive) Belt System Availability/	4
19.	(00)	None used, not available, or belt removed/destroyed Inoperative (specify):	Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	•
	(03) (04)	Shoulder belt Lap belt Lap and shoulder belt Belt used—type unknown	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	•
	(08) (12) (13)	Other belt used (specify): Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (manually disconnected, motorized track inoperative)	<u> </u>
	(18)	safety seat Belt used with child safety seat—type unknown Other belt used with child safety seat (specify):	(specify): (3) Automatic belt use unknown (9) Unknown	•
20.	Prop (O)	Unknown if belt used per Use of Manual (Active) Belts None used or not available Belt used properly	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	Ψ_
	(2) Belt (3) (4) (5)	Belt used properly with child safety seat Used Improperly Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	Φ_
	(7)	Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than	
		Other improper use of manual belt system (specify): Unknown	one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or	
21.		nual (Active) Belt Failure Modes Φ	automatic shoulder belt used improperly	
	Duri (0) (1) (2)	ng Accident No manual belt used or not available No manual belt failure(s) Torn webbing (stretched webbing not included)	with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	
	(4) (5)	Broken buckle or latchplate Upper anchorage separated Other anchorage separated (specify): Broken retractor	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)	4
	(7)	Combination of above (specify):	(2) Torn webbing (stretched webbing not included(3) Broken buckle or latchplate(4) Upper anchorage separated	3)
		Other manual belt failure (specify):	(5) Other anchorage separated (specify):	
	(9)	Unknown	(6) Broken retractor(7) Combination of above (specify):(8) Other automatic belt failure (specify):	
1			(9) Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION		
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position)		
 (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" 	 (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 		
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:		
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 		
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown		

FIRST S	EAT FRONTAL AIR E	BAG SYSTEM EVALUATION
 35. Had Vehicle Been in Previous Ac (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without (3) One previous accident with (4) More than one previous accident deployment (8) Previous accidents, unknown (9) Unknown 	deployment(s) deployment dent with at least	40. Longitudinal Component of + Delta V For Air Bag φ φ Φ Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer install (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown		 41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Serv Been Performed On This Air Bag (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (spec	System?	 42. Were Air Bag Module Cover Flap(s) Damaged? Φ (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
38. Air Bag Deployment Accident Ex- Sequence Number (00) Not equipped/not available Code the accident evenumber that initiated deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	ent sequence the air bag	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Im (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (sp (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown		(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYST	EM		HE	AD	RESTRAINT AND SEAT EVALUAT	ION
44.	EVALUATION continued Source of Air Bag Damage	ψ	4	49.	Head	d Restraint Type/Damage by Occupant his Occupant Position	9
	(00) Not equipped/not available					No head restraints	
	(01) Not damaged				(1)	Integral—no damage	
	(02) Object worn by occupant, (specify):				(2) (3)	Integral—damaged during accident Adjustable—no damage	
	(03) Object carried by occupant, (specify):		_		(4) (5)	Adjustable — damaged during accident Add-on — no damage	
	(04) Adaptive/assistive controls, (specify):		_		(6) (8)	Add-on—damaged during accident Other (specify):	
	(05) Fire in vehicle		_		(0)		
	(06) Thermal burns				(9)	Unknown	
	(07) Rescue or emergency efforts			İ		4	79
	(88) Other damage source (specify):			50.		Trype (this Occupant rushion)	<u>/ </u>
	(95) Damaged, unknown source		-			Occupant not seated or no seat	
	(96) Deployed, unknown if damaged			1		Bucket	
	(97) Not deployed					Bucket with folding back	
	(98) Unknown if deployed					Bench Bench with separate back cushions	
	(99) Unknown			İ		Bench with folding back(s)	
						Split bench with separate back cushions	
15	Man The Air Pag Tothered?		ψ			Split bench with folding back(s)	
45.	Was The Air Bag Tethered? (0) Not equipped/not available					Pedestal (i.e., column supported)	
	(1) No			l		Box mounted seat (i.e., van type)	
	(2) Yes (specify number of tether straps):			1		Other seat type (specify):	
	(3) Deployed, unknown if tethered					Unknown -	
	(7) Not deployed				•		9
	(8) Unknown if deployed			51.	Sea	t Orientation (this Occupant Position)	
	(9) Unknown					Occupant not seated or no seat	
			_			Forward facing seat	
46.	Did The Air Bag Have Vent Ports?		Φ			Rear facing seat	
l	(0) Not equipped/not available (1) No					Side facing seat (inward)	
ŀ	(2) Yes (specify number of vent ports):			1		Side facing seat (outward)	:
						Other (specify):	
	(3) Deployed, unknown if vent ports presen(7) Not deployed	τ				Unknown	a
	(8) Unknown if deployed			52.	Sea	t Track Adjusted Position Prior To Impact	9
	(9) Unknown					Occupant not seated or no seat	
1	Was the Air Rag in this Occupant's Pasition		Φ	1	(1)	Non-adjustable seat track	
47.	Was the Air Bag in this Occupant's Position Contacted by Another Occupant?		_Φ_			watchin Cont Tract-	
1	(0) Not equipped/not available			1		ustable Seat Track	
	(1) No			1		Seat at forward most track position Seat between forward most and middle tra-	ck
	(2) Yes (specify):			1		positions	
l				1		Seat at middle track position	
1	(3) Deployed, unknown if other occupant co	onta	ct to	1		Seat between middle and rear most track	
	air bag					positions	
1	(7) Not deployed			1		Seat at rear most track position	
	(8) Unknown if deployed			1		Unknown	
	(9) Unknown						
10	Was This Occupant Wearing Eye-wear?		φ				
40.	(0) Not air bag equipped/air bag not availab	le	<u> </u>	1			
1	(1) No			}			
	(2) Eyeglasses/sunglasses						
	(3) Contact lenses						
	(4) Deployed, unknown if eyewear worn						
	(7) Not deployed						
1	(8) Unknown if deployed						
1	(9) Unknown			1		•	
L							

dank Campling	System-Crashworthiness Data System: Occupant Assessment Form
ident Sampling	System Orden Continues Continues
	HEAD RESTRAINT AND SEAT EVALUATION continued
	HEAD HESTHAMIT AND CENT

9

99

53. Seat Back Incline Prior and Post Impact

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

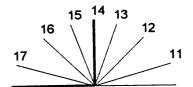
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

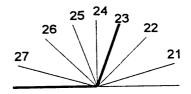
Slightly reclined prior to impact

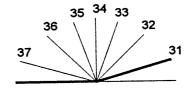
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify): ____
 - (9) Unknown







ational Accident Sampling System-Crashworthin		ETY SEAT
	<u>φ_ φ_</u>	58. Child Safety Seat Harness Usage $\underline{\phi}$
(000) No child safety seat	.	
Applicable codes are found in your NASS CD)5	59. Child Safety Seat Shield Usage ϕ
Data Collection, Coding and Editing		1 55. Clind Salety Sout Simons Surge
(950) Built-in child safety seat		
(997) Other make/model (specify):		60. Child Safety Seat Tether Usage ϕ
(998) Unknown make/model		00. 010 00.001,
(999) Unknown if child safety seat used		Note: Options below applicable to
(999) Officiowith Child Salety Seat assa		Variables OA58-OA60.
56. Type of Child Safety Seat	9	(00) No child safety seat
(0) No child safety seat		
(1) Infant seat		Not Designed With Harness/Shield/Tether
(2) Toddler seat		(01) After market harness/shield/tether
(3) Convertible seat		added, not used
(4) Booster seat - with shield		(02) After market harness/shield/tether used
(5) Booster seat - without shield		(03) Child safety seat used, but no after market
(7) Other type child safety seat (specify):		harness/shield/tether added (09) Unknown if harness/shield/tether
		added or used
(8) Unknown child safety seat type		added of used
(9) Unknown if child safety seat used		Designed With Harness/Shield/Tether
		(11) Harness/shield/tether not used
	<i>(</i> 1) <i>(</i> 1)	(12) Harness/shield/tether used
57. Child Safety Seat Orientation	φ φ	(19) Unknown if harness/shield/tether used
(00) No child safety seat		(13) Sinking the second
Designed for Book Engine for This Age Weig	nht	Unknown If Designed With Harness/Shield/Tether
Designed for Rear Facing for This Age/Weig	,,,,	(21) Harness/shield/tether not used
(01) Rear facing (02) Forward facing	•	(22) Harness/shield/tether used
(02) Forward facing (08) Other orientation (specify):		(29) Unknown if harness/shield/tether used
(06) Other orientation (specify)		
(09) Unknown orientation		(99) Unknown if child safety seat used
Designed For Forward Facing for This Age/	Weight	
(11) Rear facing	J. g t	
(12) Forward facing		
(18) Other orientation (specify):		
(18) Other orientation (specify)		
(19) Unknown orientation		
Unknown Design or Orientation For This		
Age/Weight, or Unknown Age/Weight		
(21) Rear facing		
(22) Forward facing		
(28) Other orientation (specify):		
(29) Unknown orientation		
(99) Unknown if child safety seat used		

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INJURY CONSEQUEN	NCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	<u>3</u>	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	<u>3</u>	64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown
Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontrans (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facilitreated (9) Unknown		65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
EM	ERGENCY RESPO	ONSE INFORMATION
EMS Notification (1) Not notified (2) Notified (9) Unknown	ROAD V EHICLE AIR V EHICLE	EMS Type (O1) Fire department (O2) Rescue squad
EMS NotificationTime (9999) Unknown	ROAD VEHICLE	(06) Ambulance service unit (07) Hospital (08) Mortuaries/funeral homes (98) Other, specifiy: (99) Unknown
EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown	ROAD VEHICLE	EMS Care (on scene or during transport) (01) No care administered (02) First aid (03) Resuscitation
EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown	ROAD VEHICLE	(04) CPR (05) Emergency cardiac care (06) Life support system monitoring (blood pressure, pulse rate, respiration, EKG) (07) Emergency burn care (08) Combination of above, specify:
(9999) Unknown EMS Arrival Time At Treatment Facility (9999) Unknown	ROAD VEHICLE	_

STOP WORK HERE VARIABLES 66-74 TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES		TRAUMA DATA		
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	<u>φ</u> <u>φ</u> =	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured		
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	φ ψ φ φ	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured		
disease) (specify):		BELT USE DETERMINATION		
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	97	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):		

Summary of Results Using Damage

Page 1

Task order 57 - Oldsmobile v. Ford

Speed Change (ROLDMISS)

Vehicle #1

Total 22 km/h (14 mph)
Longitudinal -22 km/h (-14 mph)
Latitudinal 2 km/h (1 mph)

PDOF Angle -5 ø
Energy Dissipated = 36848 Joules (27174 Ft-Lb)
Barrier Equivalent Speed = 22.9 km/h (14.2 mph)
Calculated using crush coefficients entered by the user.

Vehicle #2

Total 32 km/h (20 mph)
Longitudinal -18 km/h (-11 mph)
Latitudinal -26 km/h (-16 mph)
PDOF Angle 55 ø

PDOF Angle 55 \varnothing Energy Dissipated = 50343 Joules (37126 Ft-Lb) Barrier Equivalent Speed = 31.2 km/h (19.4 mph) Calculated using crush coefficients entered by the user.

General Information

	Vehicle #1	Vehicle #2
Year	1996	1987
Make	Oldsmobile	Ford
Model	Cutlass Supreme	Tempo
CDC	12FDEW2	MISSING
Side Damaged	F	R
PDOF Angle	-5 ø	55 ø
Heading Angle	0 @	120 ø

Calculation method: Vehicle's Crush Coeff. Vehicle's Crush Coeff.

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1997

Damago Information

Damage	Information

	_	Ver	nic	le :	#1	Vehicle #2
Vehicle Damage Known	Yes		=	No		
Crush Length	140.0	cm	(55	in)	0.0 cm (0 in)
C1	2.0	cm	(1	in)	0.0 cm (0 in)
C2	9.0	cm	(4	in)	0.0 cm (0 in)
C3	19.5	cm	(8	in)	0.0 cm (0 in)
C4	29.5	cm	(12	in)	0.0 cm (0 in)
C5	29.5	cm	(12	in)	0.0 cm (0 in)
C6	13.0	cm	(5	in)	0.0 cm (0 in)
Ð	13.0	cm	(5	in)	0.0 cm (0 in)
D'	27.0	cm	(11	in)	0.0 cm (0 in)

Vehicle Dimensions

	Vehicle #1	Vehicle #2		
Length	492.3 cm (194 in)	448.2 cm (176 in)		
Width	•	173.4 cm (68 in)		
Wheelbase	273.0 cm (107 in)	253.8 cm (100 in)		
Weight	1649 kgs (3635 lbs)	1167 kgs (2573 lbs)		
	228.1 cm (90 in)			
Engine Displacement	0.0 liters	2.3 liters		
Moment of Inertia	361108 kgs (31962 lbs)	203806 kgs (18039 lbs)		
Vehicle Mass		1167 kgs (6.7 lb-s^2/in)		

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES		TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	ΦΦ	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
68. 2nd Medically Reported Cause of Death	φ φ φ φ	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	<u> </u>	73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):		BELT USE DETERMINATION
Code the actual number of injuries recorded for this occupant. (00) No recorded injuries	c" end,	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):



OCCUPANT ASSESSMENT FORM

BEST AVAILABLE

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum AB 12	10. Occupant's Seat Position
3. Vehicle Number ϕ /	Front Seat (11) Left side
4. Occupant Number 42	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
OCCOPAINT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown 6. Occupant's Sex	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown 11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): THEMOLOGY (9) Unknown
(1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 44 inches X 2.54 = 112 centimeters	
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown \$\Phi \frac{38}{2}\$ pounds X .4536 = \$\Phi 17\$ kilograms	
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	

	E.	JECTION/E	NTRAPMENT
() () ()	jection O) No ejection 1) Complete ejection 2) Partial ejection 3) Ejection, unknown degree 9) Unknown	φ	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
(1) (2) (3) (4) (8) (7) (8)	jection Area O) No ejection I) Windshield C) Left front B) Right front I) Left rear E) Right rear E) Rear O) Roof Other area (e.g., back of pickup, etc. (specify): Unknown	φ	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place
(5 (2 (2 (4 (5 (8	jection Medium A No ejection Door/hatch/tailgate Nonfixed roof structure Fixed glazing Nonfixed glazing (specify): Integral structure Other medium (specify): Unknown	<u> </u>	 (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

	BELL SYSTE	M FUNCTION	
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position	3
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	(3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment	
19.	(9) Unknown Manual (Active) Belt System Use	23. Automatic (Passive) Belt System Availability/	\$
,	(00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	(0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	
	(05) Belt used—type unknown (08) Other belt used (specify):	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative	
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat 	(1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative)	
	 (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): 	(specify): (3) Automatic belt use unknown (9) Unknown	
20.	(99) Unknown if belt used Proper Use of Manual (Active) Belts	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system	<u>\$</u>
	(0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	(2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive)	Φ
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person	Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	<u>*</u>
	 (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): 	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than	
	(8) Other improper use of manual belt system (specify): LAP ONLY (9) Unknown	one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or	
21.	Manual (Active) Belt Failure Modes Uring Accident	automatic shoulder belt used improperly with child safety seat (specify):	
	(0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included)	(8) Other improper use of automatic belt system (specify): (9) Unknown	
	(3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use	<u>φ</u>
	(6) Broken retractor (7) Combination of above (specify):	 (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included (3) Broken buckle or latchplate (4) Upper anchorage separated 	d)
	(8) Other manual belt failure (specify): (9) Unknown	(5) Other anchorage separated (specify):(6) Broken retractor	
		(7) Combination of above (specify):(8) Other automatic belt failure (specify):	
		(9) Unknown .	

POLICE REPORTED RESTRAINT LISE	AIR RAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): SHOUGH BELT / NOT USED (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	AIR BAG SYSTEM FUNCTION 30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position)
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used	(0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed
	(9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): シムルではら ドルの レ(3 (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYST EVALUATION continued	EM		RIE	AD	RESTRAINT AND SEAT EVALUATIO	N
44	Source of Air Bag Damage	φ	1	49.			3
→ →.	(00) Not equipped/not available		<u> </u>			nis Occupant Position	
	(01) Not damaged				(0)	No head restraints	
	(02) Object worn by occupant, (specify):			1	(1)	Integral—no damage	
	(a special way a coupant, topoony,			1	(2)	Integral - damaged during accident	
	(03) Object carried by occupant, (specify):		-			Adjustable —no damage	
	1000 company on the terms of the terms of the				(4)	Adjustable—damaged during accident	
	(04) Adaptive/assistive controls, (specify):		-			Add-on—no damage	
						Add-on—damaged during accident Other (specify):	
	(05) Fire in vehicle		-		(0)	Other (Specify).	
	(06) Thermal burns			1	(9)	Unknown	
	(07) Rescue or emergency efforts				10,		
	(88) Other damage source (specify):			l 50.	Seat	Type (this Occupant Position) 41	
	(OE) D		-	1		Occupant not seated or no seat	_
	(95) Damaged, unknown source					Bucket	
	(96) Deployed, unknown if damaged (97) Not deployed				(02)	Bucket with folding back	
	(98) Unknown if deployed				(03)	Bench	
	(99) Unknown					Bench with separate back cushions	
	(33) OHRHOWIT					Bench with folding back(s)	
			1		(06)	Split bench with separate back cushions	
45.	Was The Air Bag Tethered?				(07)	Split bench with folding back(s)	
	(0) Not equipped/not available				(08)	Pedestal (i.e., column supported)	
	(1) No				(09)	Box mounted seat (i.e., van type)	
	(2) Yes (specify number of tether straps):				(10)	Other seat type (specify):	
	12) Deployed unknown if tethered				1001	Unknown	
	(3) Deployed, unknown if tethered (7) Not deployed				(33)	UNKNOWN	
	(8) Unknown if deployed			51.	Seat	Orientation (this Occupant Position)	
	(9) Unknown					Occupant not seated or no seat	—
			_			forward facing seat	
46.	Did The Air Bag Have Vent Ports?		2			Rear facing seat	
	(0) Not equipped/not available					Side facing seat (inward)	
	(1) No					Side facing seat (outward)	
	(2) Yes (specify number of vent ports):	_				Other (specify):	
	(3) Deployed, unknown if vent ports present				· - · · •	·	
	(7) Not deployed			1	(9) L	Jnknown	
	(8) Unknown if deployed				04	T 1 A 11 - 1 B 12 B 1 - T 1 - 1	
	(9) Unknown					Track Adjusted Position Prior To Impact	2
					(U) C	Occupant not seated or no seat	
47 .	Was the Air Bag in this Occupant's Position				(1) 1	lon-adjustable seat track	
	Contacted by Another Occupant?	-			Adius	stable Seat Track	
	(0) Not equipped/not available		•			seat at forward most track position	
	(1) No					eat between forward most and middle track	
	(2) Yes (specify):					ositions	
	(0) D			Į		eat at middle track position	
	(3) Deployed, unknown if other occupant co	ntac	t to	ĺ	(5) S	eat between middle and rear most track	
	air bag					ositions	
	(7) Not deployed					eat at rear most track position	
	(8) Unknown if deployed (9) Unknown			İ	(9) L	Inknown	
	(3) OTRIOWIT						
48.	Was This Occupant Wearing Eye-wear?						
. • .	(0) Not air bag equipped/air bag not available	_		ł			
	(1) No	-					
	(2) Eyeglasses/sunglasses			1			
	(3) Contact lenses			1			
	(4) Deployed, unknown if eyewear worn			1		,	
	(7) Not deployed						
	(8) Unknown if deployed			1			1
	(9) Unknown						

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

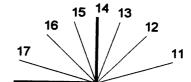
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

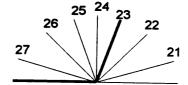
Slightly reclined prior to impact

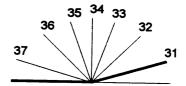
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







		CHIL	D SA	FETY SEA	AT	
55.	Child Safety Seat Make/Mode (000) No child safety seat	Φ Φ	φ	58. Child	Safety Seat Harness Usage	φ 9
	Applicable codes are found in Data Collection, Coding and E (950) Built-in child safety sea	diting		59. Child	Safety Seat Shield Usage	φφ
	(997) Other make/model (spe	cify):		60. Child	Safety Seat Tether Usage	φ φ
	(998) Unknown make/model (999) Unknown if child safety	seat used		Note:	Options below applicable to	<u> </u>
56.	Type of Child Safety Seat (0) No child safety seat		φ_		oles OA58-OA60. No child safety seat	
	(1) Infant seat(2) Toddler seat			Not D (01)	esigned With Harness/Shield/Tether After market harness/shield/tether	
	(3) Convertible seat(4) Booster seat - with shield(5) Booster seat - without shield	ald		(02)	added, not used After market harness/shield/tether u	sed
	(7) Other type child safety se	at (specify):		ŀ	Child safety seat used, but no after i harness/shield/tether added Unknown if harness/shield/tether	market
	(8) Unknown child safety sea(9) Unknown if child safety sea	type at used			added or used	
57.	Child Safety Seat Orientation (00) No child safety seat	<u> </u>	9	(11) (12)	ned With Harness/Shield/Tether Harness/shield/tether not used Harness/shield/tether used Unknown if harness/shield/tether use	ed
	Designed for Rear Facing for T (01) Rear facing	his Age/Weight		Unkno	wn If Designed With Harness/Shield.	
	(02) Forward facing			(21) I (22) I	Harness/shield/tether not used Harness/shield/tether used	
	(08) Other orientation (specify	') :		(29)	Jnknown if harness/shield/tether use	ed
,	(09) Unknown orientation			(99) l	Jnknown if child safety seat used	
	Designed For Forward Facing for (11) Rear facing	or This Age/Weigh	nt			
	12) Forward facing18) Other orientation (specify	۸.				
	19) Unknown orientation		İ			
-	<i>Inknown Design or Orientation</i> A <i>ge/Weight, or Unknown Age/</i> 21) Rear facing	For This Neight				
(22) Forward facing					
(28) Other orientation (specify) :	l			
(29) Unknown orientation					
(:	99) Unknown if child safety s	eat used				

INJURY CONSEQUE	NCES			
61. Injury Severity (Police Rating)	4	63. Type	e Of Medical Facility (for Initial Tre	eatment) 2
(0) O - No injury		(0)	Not treated at a medical facility	
(1) C - Possible injury			Trauma center	
(2) B - Nonincapacitating injury			Hospital	
(3) A - Incapacitating injury		1	Medical clinic	
(4) K - Killed			Physician's office Treatment later at medical facility	
(5) U - Injury, severity unknown			Other (specify):	
(6) Died prior to accident		(0)	other (specify).	
(9) Unknown		(9)	Unknown	
62 Treatment Mentality	1	,,,,		
62. Treatment - Mortality		64. Hosp	oital Stay	49
(0) No treatment (1) Fatal		(00)	Not Hospitalized	
(2) Fatal - ruled disease (specify)			_Code the number of days (up thr	ough 60)
(2) Tutal Taloa aladase (apoelly)	•	•	the occupant stayed in hospital.	
			61 days or more	
Nonfatal		(99)	Unknown	
(3) Hospitalization		GE Mari	libra Davia Last	62
(4) Transported and released		os. wor	king Days Lost Code the number of days	-
(5) Treatment at scene - nontrans	sported	lun 1	_code the number of days through 60) that the occupant	
(6) Treatment later			from work due to the accident	
(7) Treatment - other (specify):		1	No working days lost	
(O) T	<u> </u>		61 days or more	
(8) Transported to a medical faci	lity-unknown if		Fatally injured	
treated (9) Unknown		(97)	Not working prior to accident	
(5) CHRISWII		(99)	Unknown	
EM	ERGENCY RESPO	I DNSE INI	FORMATION	
EMS Notification			Туре	
(1) Not notified	ROAD VEHICLE	(01)	Fire department	ROAD VEHICLE
(2) Notified	AIR VEHICLE	(02)		AIR VEHICLE
(9) Unknown	AIR VEHICLE	(03) (04)		AIN VEHICLE
		(05)	Disaster unit	
EMS NotificationTime		(06)	Ambulance service unit	
(9999) Unknown	ROAD VEHICLE	(07)	Hospital	
	AIR VEHICLE	(08) (98)	Mortuaries/funeral homes	
	, ,	(99)	Other, specifiy: Unknown	
EMS Arrival Time		,,,,,		
(9998) EMS cancelled or did	ROAD VEHICLE	=		
not arrive	AIR VEHICLE		Care (on scene or during transport) No care administered	ROAD VEHICLE
(9999) Unknown	AIII VETIOLE	(01) (02)	First aid	
		(03)	Resuscitation	AIR VEHICLE
EMS Departure Time To		(04)	CPR	
Treatment Facility	ROAD VEHICLE	(05)	Emergency cardiac care	
(9997) EMS arrived, provided	AIR VEHICLE	(06)	Life support system monitoring (bl	lood pressure,
treatment, but did not transport		(07)	pulse rate, respiration, EKG) Emergency burn care	
(9998) EMS arrived, but was		(08)	Combination of above, specify:	
not used		(98)	Other, specify:	
(9999) Unknown		(99)	Unknown	
FRAC A				
EMS Arrival Time At	ROAD VEHICLE			
EMS Arrival Time At Treatment Facility (9999) Unknown	ROAD VEHICLE			

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 9 Z	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given
 68. 2nd Medically Reported Cause of Death	(specify units):(9) Unknown if blood given
Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	 73. Arterial Blood Gases (ABG) – HCO₃
(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used



Administration

U.S. Department of Transportation National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

Ø 2

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

2. Case Number - Stratum AB / 2 4. Occupant Number

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

				A.I.S 9	90				Injury		Occupan
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
1st	5. <u>1</u>	6. <u>4</u>	7. <u>4</u>	8. <u>1_4_</u>	9. <u>ØZ.</u>	10. <u>3</u>	11. <u>Z</u> 12.	<u> 18 </u>	13. <u>Z</u>	141	5. <u>P</u> <u>P</u>
2nd	161	7. <u>4</u>	18. <u>5</u>	19. <u>42</u>	20. <u>3 ψ</u>	21. <u>3</u>	22 23.	18 4	24. <u>2</u>	25. <u>/</u> 2	16. <u>4 9</u>
3rd	272	8. <u>/</u>	29. <u>4</u>	30. <u>Ø</u>	31. <u>£ 4</u>	_{32.} <u>3</u>	33. <u> </u> 9 34.	180	35	36. <u>/</u> 3	17. <u>Ø </u>
4th	38. <u>l</u> 3	ı9. <u>/</u>	40#	41. <u>Ø 6</u>	42. <u>Z Ø</u>	43. <u>3</u>	44. <u> </u>	180	46. 2	47. <u>/</u> 4	18. <u>Ø</u> <u>Ø</u>
5th	49. <u>/</u> 5	o. <u>5</u>	51. <u>4</u>	52. <u>4 2</u>	53. <u>Ζ</u> φ	54. <u>-</u> 2	55. Z 56.	<u> 15 2</u>	67. 2	58. <u>/</u> E	9. <u>•</u> •
6th	60. <u>/</u> 6	1. <u> </u> 5	62. <u>4</u>	63. <u>/ 8</u>	6422_	65. <u>-</u> 2-	66. <u>/</u> 67.	152	68	6 9 7	°0. <u>ψ</u> Φ
7th	71. <u>L</u> 7	2	73. <u>9</u>	74. <u> </u>	75. <u> </u>	76	77 78.	697	79. <u>9</u>	80. <u>7</u> 8	11. <u>Ø</u> Ø
8th	82 8	з. <u>4</u>	84. <u>9</u>	85. <u>4 4</u>	86. 42	87. <u></u>	88. <mark>Z</mark> 89.	697	90. <u>9</u>	91. <u> </u>	2. <u>q</u> q
9th	939	4. <u>G</u>	95. <u>-</u> 5	96. <u>Ø 2</u>	97. <u>Ø 4</u>	98. <u>Z</u>	99 100.	180	1011	02 10	з. <u>Ф</u>
10th 1	104 10	5. <u>3</u> 1	106. 9	07. <u>Φ</u> 2	108. <u>ϕ </u> ²	109. <u>/</u>	110. <u>5</u> 111.	18 φ	1121	13	4. <u> </u>

				occi	JPANT	INJURY	DATA				
	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 90 Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
26 14th	1	2	<u>.1</u>	<u> </u>	4 2			697	<u>9</u>	7_	φ¢.
27 42th	1	2	<u> </u>	<u> </u>	<u> </u>	,		<u> 697</u>	<u> </u>	7	<u>φ</u> φ
28 13th	1	7	9	<u> </u>	φ2			697	<u> </u>	7	φ Ψ
29 14th	(2	9_	<u> </u>	_02_		1	_69.7	_9	7_	φφ
90 15th	<u></u>	7	<u>9</u>	<u> </u>	42	7	<u>_</u>	_185	<u>_(</u>	1	<u> </u>
31 46th	1_	_7	9	<u> </u>	42	<u>'</u>	<u> </u>	<u> 44.1</u>	(48
32 17th	<u></u>	<u>.7</u>	9_	<u>06</u>	<u> </u>	<u>_</u>	<u>z</u>	491			<u>9</u>
18th			_						_		
19th	_		_				_		_	_	
20th	<u>—</u>						_				
21st							<u> </u>				
22nd											
23rd											
24th											
25th									eren er en er en er en er en er en er en er en er en er en er en er en er en er en er en er en er en er en er En er en er en en er en er en er en er en er en er en er en er en er en er en er en er en er en er en er en er		

OCCUPANT INJURY CLASSIFICATION

Body Region (1) Head (2) Face (3) Neck

- (4) Thorax (5) Abdomen
- (6) Spine
- (7) Upper Extremity
- (8) Lower Extremity (9) Unspecified

Type of Anatomic Structure

- (1) Whole Area
- (2) Vessels
- (3) Nerves
- (4) Organs (includes Muscles/ligaments)
- (5) Skeletal (includes joints)
- (6) Head LOC
- (9) Skin

Specific Anatomic Structure

Vessels, Nerves, Organs, Bones, Joints are assigned consecutive two digit numbers beginning with 02.

The exceptions to this rule apply to:

Whole Area

- (02) Skin Abrasion (04) Skin - Contusion
- (06) Skin Laceration
- (08) Skin Avulsion
- (10) Amputation
- (20) Burn
- (30) Crush
- (40) Degloving
- (50) Injury NFS
- (90) Trauma, other than mechanical

Head - LOC

- (02) Length of LOC
- (04) Level
- (06) of
- (08) Consciousness
- (10) Concussion

Spine

- (02) Cervical
- (04) Thoracic
- (06) Lumbar

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

Abbreviated Injury Scale

- (1) Minor Injury
- (2) Moderate Injury
- (3) Serious Injury
- (4) Severe Injury
- (5) Critical Injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

Aspect

- (1) Right (2) Left
- (3) Bilateral
- (4) Central (5) Anterior
- (5) Anterior (6) Posterior
- (7) Superior (8) Inferior
- (9) Unknown
- (0) Whole region

SOURCE OF INJURY DATA INJURY SOURCE CONFIDENCE LEVEL OFFICIAL RECORDS (1) Autopsy records with or (1) Certain (1) Direct contact injury

(2) Probable

(3) Possible

(9) Unknown

records
(2) Hospital/medical records other than emergency room (e.g., discharge summary)

without hospital/medical

- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL RECORDS

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

- (1) Direct contact injury(2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

REPORT OF FINDINGS

Decedent

OMI #

Date report issued : Place pronounced

County pronounced: :

Date of Birth

Date death pronounced:

Time death pronounced:

Cause of Death

: Multiple injuries

Manner of Death

: Accident

Date of Injury

Place of Injury

Location of Injury: How Injury Occurred: Passenger of auto in collision with auto

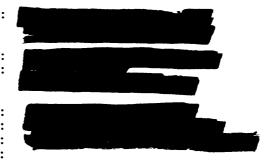
Autopsy performed by

Death Certificate signed by : Deputy Medical Investigator:

District Attorney Law Enforcement Agency/Agent:

Hospital

Other Agency

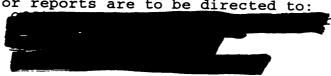


For details concerning this death, contact the law enforcement agency listed, records section.

For copies of the Death Certificate, contact the

Appropriate investigative reports are available from the as required by law. Fees are assessed where required. A review of the reports in the of the Office of the is available upon request.

All requests for reports are to be directed to:



AGE: 4 SEX: Fem RACE: Neg DOB:

SPECIMEN:

Received by:

Date:

All specimens taken during autopsy unless otherwise noted

2 Other ABDOMINAL CAVITY 1 Urine

2 Vitreous

EXAMINATION REQUESTED:

X Alcohol

X Drugs of Abuse

RESULTS:

Alcohol, ABDOMINAL CAVITY, GLC; ETHANOL: None detected (Detection limit for Ethanol is 0.005%)

Drugs of Abuse, Urine , EMIT;

Drugs of Abuse : None detected

x Final Report

Laboratory No.

REQUESTED BY:

REVIEWED: TOXICOLOGIST:

DATE:

POSTMORTEM EXAMINATION

An autopsy is performed on a body identified as of the

_at the Office

EXTERNAL EXAMINATION

The body is that of a well developed, well nourished, Black, female child, who weighs 38 pounds, is 44 inches in length, and appears compatible with the stated age of 4 years. There are identification bands around the right wrist, right ankle, and left ankle.

The body is received unclad, accompanied by:

- 1. A pink, blue, and green patterned sweater;
- 2. A pair of blue jeans;
- 3. Two blue and purple socks;
- One gray snow boot.

The sweater is previously cut, consistent with emergency medical intervention.

The body is cool. Rigor mortis is fully fixed. Fixed purple livor mortis extends over the posterior surfaces of the body, except in areas exposed to pressure.

The scalp hair is black, curly, and measures 1 1/2 inches in length over the crown. The irides are brown. The pupils are bilaterally equal at 0.5 The cornea are translucent. The sclerae show several purple-black areas of discoloration. There are a few scattered petechiae on the bulbar and palpebral conjunctivae of the lower eyelids. The nose and ears are not The teeth are natural and in good repair, with the exception of listed injuries. The neck is apparently more mobile than normal in the high cervical area.

The thorax is well developed and symmetrical. The abdomen is flat. The anus and back are unremarkable.

The breasts are not developed, consistent with the decedent's age. genitalia are those of a normal female child.

The upper and lower extremities are well developed and symmetrical, without absence of digits.

Identifying marks and scars include:

- A 1 1/8 x 1/16 inch white-tan linear scar on the right lateral 1. proximal forearm:
- A 1 $1/2 \times 1/16$ inch white linear scar on the right dorsal hand; 2.
- A 3/8 x 1/4 inch white-tan oval scar on the right lower medial 3. back:
- A 1/2 x 1/8 inch tan linear scar on the medial proximal right 4. lower leg; A 1/4 x 1/4 inch white-tan round scar on the left knee;
- 5.
- 6. A $3/8 \times 1/8$ inch linear tan scar on the medial proximal left

lower leg.

Evidence of medical intervention includes :

- 1. A nasogastric tube in the left naris;
- An endotracheal tube;
- A Foley catheter;
 - Intravascular catheters in the antecubital fossae;
- 5. Electrocardiograph pads over the left chest, right chest, and left lower abdomen and flank.

EVIDENCE OF INJURY

HEAD AND NECK: On the right posterior parietal scalp is a $7/8 \times 7/8$ inch On the left forehead is a 3/8 x 1/4 inch oval dried redred abrasion. On the left temple lateral to the eyebrow is a $1/2 \times 3/8$ purple abrasion. inch oval dried red-tan abrasion. Below the inferior attachment of the left ear is a $3/8 \times 1/4$ inch oval dried red tan abrasion. On the superior portion of the left ear is a $3/8 \times 1/8$ inch red-tan dried abrasion. left posterior ear is a 1 $7/8 \times 1/2$ inch dried red-tan abrasion. Po to the left ear is a $5/8 \times 1/4$ inch dried red-tan oval abrasion. left cheek and jaw is a 2 $1/2 \times 1$ 1/2 inch red-tan dried abrasion. Surrounding the right eye is a blue-green contusion. Lateral to the right eye is a 3/4 x 1/4 inch linear dried red-purple abrasion. On the under surface of the chin is a $3/4 \times 1/4$ inch red-tan dried abrasion. On the mid neck in the midline is a $1 \times 1/2$ inch discontinuous linear horizontal red-tan dried abrasion. On the mucosal surface of the left lower lip is a $3/4 \times 1/4$ inch laceration with surrounding red-purple hemorrhage. lower lip frenulum is lacerated, with surrounding hemorrhage. On the tip of the tongue on the right side is a $1/2 \times 1/8$ inch irregular laceration. On the left posterior portion of the tongue is a $1/2 \times 1/8$ inch irregular The mandible is fractured, with several loose lower teeth and laceration. a fractured lower incisor.

Internally, in the subcutaneous tissue of the scalp underlying the abrasion on the right posterior parietal region, is a 2 x 1 cm. contusion. A thin layer of liquid blood is present in the right and left subdural space over the convexities. Subarachnoid hemorrhage is present primarily over the frontal lobes and around the base of the brain and brain stem. There are several areas of paramidline cortical contusion over the anterior frontal lobes bilaterally. A moderate amount of soft tissue hemorrhage is present at the atlantoaxial joint without evident fracture. The joint itself is slightly loose. Mild anterior distraction of the intervertebral disk at the C2-C3 level is present.

THORAX AND ABDOMEN: On the upper thorax, both right and left, are faint scattered purple-red contusions. On the left lateral abdomen and flank, extending onto the left back, is a $5\ 1/4\ x\ 3/4$ inch red, purple, and tan near horizontal abrasion.

Internally are posteromedial fractures of the left 3rd-7th and left 10th ribs, with associated soft tissue hemorrhage. On the posterior left lung upper lobe is a 3 x 5 cm. contusion. In the soft tissues of the anterior and posterior mediastinum including the thymus and in the left supraclavicular area are moderate amounts of hemorrhage. The splenic capsule and parenchyma are disrupted by numerous irregular lacerations.

L

the posterior lateral edge of the right lobe of the liver is a 0.5 cm. laceration. A moderate amount of hemorrhage is within the falciform ligament. The abdominal cavity contains 400 ml. of liquid blood.

UPPER EXTREMITIES: On the posterior proximal left forearm is a 4 $1/4 \times 2$ inch purple contusion. On the left hand are multiple small red-purple abrasions and small lacerations measuring up to 1/8 inch. On the anterior proximal right forearm is a 1 $1/8 \times 5/8$ inch red-purple contusion. On the right distal medial forearm is a 1/2 inch round red-purple contusion. On the right medial wrist is a 1/2 inch round red-purple contusion.

INTERNAL EXAMINATION

BODY CAVITIES: No adhesions are in any of the body cavities. Twenty (20) ml. of serosanguineous fluid are in the right pleural cavity. Fifteen (15) ml. of serosanguineous fluid are in the left pleural cavity. The abdominal cavity contains the previously mentioned blood. All body organs are present in normal and anatomic position.

HEAD (CENTRAL NERVOUS SYSTEM): The brain weighs 1,070 grams. The dura mater and falx cerebri are intact, and the leptomeninges are thin and delicate, with the previously described abnormalities. The cerebral hemispheres are symmetrical. The structures at the base of the brain, including cranial nerves and blood vessels, are intact and free of abnormality. Sections through the cerebral hemispheres reveal small cortical hemorrhages in the previously noted contused regions. No other lesions are identified within the cortex, subcortical white matter, or deep parenchyma of either hemisphere. The cerebral ventricles are of normal caliber. Sections through the brain stem and cerebellum are unremarkable. The cervical spinal cord is examined. No abnormalities are visible.

NECK: Examination of the soft tissues of the neck, including strap muscles and large vessels, reveals no abnormalities, with the exception of the previously described soft tissue hemorrhage. The hyoid bone and larynx are intact. The tongue is normal, aside from the previously described lacerations.

CARDIOVASCULAR SYSTEM: The heart weighs 55 grams. The pericardial surfaces are smooth, glistening, and unremarkable. The pericardial sac is free of significant fluid or adhesions. The coronary arteries arise normally and follow the usual distribution of a left dominant pattern with no significant atherosclerotic stenoses. The chambers and valves exhibit the usual size/position relationship and are unremarkable. The myocardium is dark red-brown, firm, and unremarkable; the atrial and ventricular septa The aorta and its major branches arise normally and follow the are intact. usual course, with no significant atherosclerosis or laceration. foramen ovale is membrane closed. The vena cava and its major tributaries return to the heart in the usual distribution and are unremarkable.

RESPIRATORY SYSTEM: The right and left lungs weigh 150 and 135 grams, respectively. The upper and lower airways are patent, and the mucosal surfaces are smooth, yellow-tan, and unremarkable. The pleural surfaces are smooth, glistening, and unremarkable, aside from the previously described contusion. The pulmonary parenchyma is dark red-purple and exudes slight to moderate amounts of blood and frothy fluid. The pulmonary

arteries are normally developed and patent.

LIVER AND BILIARY SYSTEM: The liver weighs 450 grams. The hepatic capsule is smooth, glistening, and intact, covering red-brown parenchyma. There is a small laceration, as noted. The gallbladder contains viscid bile. The extrahepatic biliary tree is patent.

ALIMENTARY TRACT: The esophagus is lined by gray-white, smooth mucosa. The gastric mucosa is arranged in the usual rugal folds, and the lumen contains a large amount of thick green material and partially digested food fragments. The small and large bowel are unremarkable. The appendix is present. The colon contains unformed stool. The mesentery, including the root and blood vessels, is intact without disruption. There are numerous appropriately enlarged mesenteric lymph nodes. The pancreas has a normal, gray-white, lobulated appearance, and the ducts are clear.

GENITOURINARY TRACT: The right and left kidneys weigh 30 grams each. The renal capsules are smooth, thin, semitransparent, and strip with ease from the underlying smooth, red-brown, firm, cortical surfaces. The cortices are sharply delineated from the medullary pyramids. The calyces, pelves, and ureters are unremarkable. The urinary bladder contains no urine; the mucosa is gray-tan and smooth. The uterus, Fallopian tubes, ovaries, and vagina are unremarkable.

RETICULOENDOTHELIAL SYSTEM: The spleen weighs 50 grams with the previously described capsular and parenchymal lacerations. The splenic lymphoid follicles are unremarkable. The regional lymph nodes appear normal.

ENDOCRINE SYSTEM: The pituitary, thyroid, and adrenal glands are unremarkable.

MUSCULOSKELETAL SYSTEM: The bony framework, supporting musculature, and soft tissues are not unusual, with the exception of the previously described injuries.

MICROSCOPIC NOTES

BRAIN: Sections of the temporal and frontal cortex show acute subarachnoid hemorrhage and several small areas of intraparenchymal perivascular acute hemorrhage consistent with contusions. Sections of the pons show focal acute intraparenchymal hemorrhage in the posterior aspect and acute subarachnoid hemorrhage. Sections of the cerebellum show acute subarachnoid hemorrhage. Sections of the spinal cord are unremarkable with no evidence of hemorrhage, laceration, or contusion.

HEART: There is an irregular loose grouping of lymphocytes in the right ventricle myocardium, with associated interstitial edema. Myocyte necrosis is not seen. Otherwise, sections show normal myocytes without inflammation, hypertrophy, hemorrhage, or other abnormality.

LUNGS: Sections show normal alveoli, bronchioles, and blood vessels with broad zones of acute intra-alveolar, septal, and subpleural hemorrhage. Small benign lymphoid aggregates are present.

KIDNEYS: Sections show unremarkable glomeruli, tubules, interstitium, and blood vessels. Acute hemorrhage is present in the renal pelvis and perinephric fat.

LIVER: Sections of the liver show unremarkable hepatic cords, sinusoids, and portal triads without inflammation, masses, or fibrosis.

SPLEEN: Sections show the usual architecture of red and white pulp with large areas of acute intraparenchymal hemorrhage.

THYROID: Sections show variably-sized follicles without abnormality.

THYMUS: Sections show the usual architecture of thymic cortex and medulla with focal acute parenchymal hemorrhage.

ADRENALS: Sections show an unremarkable cortex and medulla without abnormality.

PANCREAS: Sections show unremarkable acini and islets without abnormality.

OVARY: Sections show a normal cortex with numerous follicles for age.

LYMPH NODE: Sections show the usual architecture with prominent lymphoid follicles.

PATHOLOGIC DIAGNOSES

- I. Blunt trauma, head and neck
 - A. Multiple abrasions and contusions of head and neck
 - B. Mandible fracture, with lacerations of lower lip and lower frenulum
 - C. Soft tissue hemorrhage of cervical spine, C1-C2
 - D. Extension injury of cervical spine, C2-C3
 - E. Subdural and subarachnoid hemorrhage
 - F. Acute cerebral and pontine contusions
- II. Blunt trauma, thorax and abdomen
 - A. Contusions and abrasions over thorax and left lower trunk
 - B. Multiple left rib fractures
 - C. Left lung contusion
 - D. Mediastinal soft tissue hemorrhage
 - E. Multiple lacerations of spleen, with hemoperitoneum (400 ml.)
 - F. Liver laceration
 - G. Hemorrhage into falciform ligament
- III. Multiple contusions and abrasions of upper extremities

OPINION

This 4 year old female child, died of multiple blunt trauma injuries sustained in a motor venice corrision. She was reportedly the right front seat passenger. The decedent was unresponsive at the scene and transported to a regional medical center where she was diagnosed with closed head injuries. She was airlifted to another regional medical center and pronounced dead shortly after arrival.

The airbags in the decedent's vehicle reportedly deployed. There is conflicting historical and investigative information regarding seatbelt use by the decedent.

Autopsy revealed multiple blunt trauma injuries including bruising of the brain (cerebral contusions) with bleeding around the brain (subarachnoid and subdural hemorrhage), a broken jaw, neck injuries, broken left ribs and left lung bruise, and splenic and liver lacerations with abundant internal bleeding. Multiple scrapes (abrasions) and bruises (contusions) of the scalp, face, neck, trunk, and arms were also identified.

Cutaneous blunt force injuries (abrasions) of the neck and lower left trunk are consistent with shoulder and lap belts around the decedent, perhaps with the left hip facing somewhat forward. Other cutaneous blunt force injuries of the face, chest, and arms (abrasions, contusions, and lacerations) are consistent with impact with an object or objects in the motor vehicle such as an air bag. Extensive abdominal and chest injuries are likely associated with seat belts, if worn, while other internal (head) injuries may be associated with impact with the air bag or other internal surfaces of the car.

The manner of death is accident.

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

	OCCUPANT'S SEATING
Primary Sampling Unit Number	10. Occupant's Sept Position 13
2. Case Number - Stratum AB 12	10. Occupant's Seat Position
3. Vehicle Number ϕ /	(11) Left side
	(12) Middle
4. Occupant Number	(13) Right side (14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age	Second Seat
Code actual age at time of accident.	(21) Left side
(00) Less than one year old (specify by month):	(22) Middle
	(23) Right side
(97) 97 years and older	(24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
	Third Seat
7	(31) Left side
6. Occupant's Sex (1) Male	(32) Middle
(2) Female-not reported pregnant	(33) Right side (34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month)	·
(5) Female-pregnant-3rd trimester(7th-9th month)	Fourth Seat
(6) Female-pregnant-term unknown	(41) Left side
(9) Unknown	(42) Middle (43) Right side
	(44) Other (specify):
A C	(45) On or in the lap of another occupant
7. Occupant's Height 999	
Code actual height to the nearest centimeter.	(97) In or on unenclosed area
(999) Unknown	(98) Other seat (specify):(99) Unknown
(ccc) chalcon	(66), 6,,,,,,6
inches X 2.54 = centimeters	
8. Occupant's Weight 999	11. Occupant's Posture ϕ
Code actual weight to the nearest	(0) Normal posture
kilogram.	Abnormal posture
(999) Unknown	(1) Kneeling or standing on seat
pounds X .4536 = kilograms	(2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat
	(4) Sitting sideways or turned to talk with another
9. Occupant's Role	occupant or to look out a rear window
(1) Driver	(5) Sitting on a console (6) Lying back in a reclined seat position
(2) Passenger	(7) Bracing with feet or hands on a surface in front
(9) Unknown	of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
•	
S Form 433A (1/96) This report is authorized by P.L. 89-563. Ti	le 1 Section 106, 108, and 112. While you are not required to

EJEC [*]	TION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	Ψ	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	<u>φ</u>	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	φ_	 (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

	BELT SYSTEM	VI FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
	(9) Unknown	23. Automatic (Passive) Belt System Availability/ Ф
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	(0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts
	 (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 	rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type
20.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly	(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown
	 (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown 	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included)	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown
	(3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
 (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" 	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	 Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of + Delta V For Air Bag - 4 4 9 Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	 41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
	Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
38.	Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(7) Not deployed (8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39.	CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYST EVALUATION continued	EM	HEAD RESTRAINT AND SEAT EVALUATION
			49. Head Restraint Type/Damage by Occupant ϕ
	ource of Air Bag Damage	$\phi \phi$	at This Occupant Position
	0) Not equipped/not available		(0) No head restraints
	1) Not damaged		(1) Integral—no damage
, (C	2) Object worn by occupant, (specify):		(2) Integral—damaged during accident
	00) Object of the control of the cont		(3) Adjustable – no damage
(C	Object carried by occupant, (specify):		(4) Adjustable – damaged during accident
,,	(A) Ad-ai-da-ai-di-a-ai-di-		(5) Add-on—no damage
(((A) Adaptive/assistive controls, (specify):		(6) Add-on-damaged during accident
ır.	05) Fire in vehicle		(8) Other (specify):
-	06) Thermal burns		
	77) Rescue or emergency efforts		(9) Unknown
	88) Other damage source (specify):		50 Seat Type (this Occupant Position) 43
,,,	of Other damage source (specify).		1 00. Ocal Type (triis Occupant Costion)
10	5) Damaged, unknown source		(00) Occupant not seated or no seat
	66) Deployed, unknown if damaged		(01) Bucket
	77) Not deployed		(02) Bucket with folding back
	98) Unknown if deployed		(03) Bench (04) Bench with separate back cushions
	99) Unknown		(05) Bench with folding back(s)
			(06) Split bench with separate back cushions
45 14	/ TI A' D. Todo ood?	Φ	(07) Split bench with folding back(s)
	/as The Air Bag Tethered?		(08) Pedestal (i.e., column supported)
)) Not equipped/not available		(09) Box mounted seat (i.e., van type)
	No		(10) Other seat type (specify):
(2	2) Yes (specify number of tether straps):		(10) Still Bodt type (speeling)
12	B) Deployed, unknown if tethered		(99) Unknown
	7) Not deployed		1
	B) Unknown if deployed		51. Seat Orientation (this Occupant Position)
	9) Unknown		(0) Occupant not seated or no seat
		•	(1) Forward facing seat
	id The Air Bag Have Vent Ports?	<u>φ</u>	(2) Rear facing seat
	Not equipped/not available		(3) Side facing seat (inward)
	l) No		(4) Side facing seat (outward)
(4	2) Yes (specify number of vent ports):		(8) Other (specify):
(3	B) Deployed, unknown if vent ports presen	it	(9) Unknown
	7) Not deployed		(c) chimican
3)	3) Unknown if deployed		52. Seat Track Adjusted Position Prior To Impact
(9	9) Unknown		(0) Occupant not seated or no seat
			(1) Non-adjustable seat track
	Vas the Air Bag in this Occupant's Position	φ	
	ontacted by Another Occupant?		Adjustable Seat Track
•	Not equipped/not available		(2) Seat at forward most track position
	I) No		(3) Seat between forward most and middle track
(2	?) Yes (specify):		positions
ľ	B) Deployed, unknown if other occupant co	ontact to	(4) Seat at middle track position (5) Seat between middle and rear most track
· ``	air bag		positions
l c	7) Not deployed		(6) Seat at rear most track position
	B) Unknown if deployed		(9) Unknown
	9) Unknown		(3) GIRIOWII
	-	_	
	Vas This Occupant Wearing Eye-wear?	<u> </u>	
	Not air bag equipped/air bag not availab	le	
	I) No		
	2) Eyeglasses/sunglasses		
	B) Contact lenses		
	1) Deployed, unknown if eyewear worn		
	7) Not deployed 3) Unknown if deployed		
	9) Unknown		
L '	O CHARACTER		•

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HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

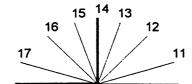
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

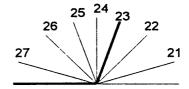
Slightly reclined prior to impact

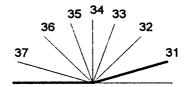
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







			CHILD	SAF	ETY	SEA	λΤ	
55.	Child Safety Seat M		<u> 4</u>	Ψ_	58.	Child	Safety Seat Harness Usage	φφ
	(000) No child safe	ty seat e found in your NASS	CDS					
	Data Collection, Co.				59.	Child	Safety Seat Shield Usage	φφ
	(950) Built-in child							
	(997) Other make/r				60.	Child	Safety Seat Tether Usage	φφ
	(998) Unknown ma	ike/model	_			•		
	• • •	child safety seat used					Options below applicable to bles 0A58-0A60.	
56.	Type of Child Safety	y Seat		$\boldsymbol{\varphi}$		(00)	No child safety seat	
	(0) No child safety	=						
	(1) Infant seat						Designed With Harness/Shield/Tether	
	(2) Toddler seat					(01)	After market harness/shield/tether	
	(3) Convertible sea						added, not used	
	(4) Booster seat - v						After market harness/shield/tether us	
	(5) Booster seat - v					(03)	Child safety seat used, but no after n	narket
	(7) Other type child	d safety seat (specify)):		1	(00)	harness/shield/tether added	
	(O) 11-1		-			(09)	Unknown if harness/shield/tether added or used	
	(8) Unknown child (9) Unknown if chil				l		added of dised	
	(3) OHKHOWH II CHII	iu salety seat useu				Desig	ned With Harness/Shield/Tether	
						_	Harness/shield/tether not used	
57.	Child Safety Seat O	rientation	Φ	Ø .	1	(12)	Harness/shield/tether used	
	(00) No child safet					(19)	Unknown if harness/shield/tether use	:d
								- .
		Facing for This Age/W	eight '				own If Designed With Harness/Shield/	'l ether
	(01) Rear facing						Harness/shield/tether not used	
	(02) Forward facin				}		Harness/shield/tether used	
	(08) Other orientat	tion (specity):				(29)	Unknown if harness/shield/tether use	a
	(09) Unknown orie	entation				(99)	Unknown if child safety seat used	
	Designed For Forwa	ard Facing for This Ag	e/Weia	ht	1			
	(11) Rear facing		J		1			
	(12) Forward facin	ng			1			
	(18) Other orientat				İ			
	(19) Unknown orie	entation						
	Unknown Dooing a	r Orientation For This						
	•							
	Age/Weight, or Unk (21) Rear facing	Known Aye/weight			ŀ			
	(22) Forward facing	na						
	(28) Other orientar	•						
					İ			•
	(29) Unknown orie	entation						
	(99) Unknown if c	hild safety seat used						

INJURY CONSEQUENCES	
(0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
2. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown
Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
EMERGENCY RESPO	ONSE INFORMATION
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown ROAD VEHICLE ROAD VEHICLE AIR VEHICLE	EMS Type (01) Fire department (02) Rescue squad (03) Police department (04) Trauma unit (05) Disaster unit (06) Ambulance service unit (07) Hospital (08) Mortuaries/funeral homes (98) Other, specifiy:
EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown AIR VEHICLE	(99) Unknown EMS Care (on scene or during transport) (01) No care administered (02) First aid
EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown	(03) Resuscitation (04) CPR (05) Emergency cardiac care (06) Life support system monitoring (blood pressure, pulse rate, respiration, EKG) (07) Emergency burn care (08) Combination of above, specify: (98) Other, specify: (99) Unknown
EMS Arrival Time At Treatment Facility (9999) Unknown	4 TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

	INJURY CONSEQUENCES		TRAUMA DATA
66.	Time to DeathCode number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	<u>\$\phi\$</u> \(\phi \)	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
	1st Medically Reported Cause of Death 2nd Medically Reported Cause of Death	φ <u>ψ</u> 	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units):
69.	3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled	φΨ	(9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
	disease) (specify):		BELT USE DETERMINATION
70.	Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	91	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used